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COMMERCIAL AIRCRAFT NOISE DEFINITION - L-1011 TRISTAR. VOLUME II-L-1011-1 DATA

Nathan Shapiro

Lockheed-California Company

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Federal Aviation Administration

September 1974

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COMMERCIAL AIRCRAFT NOISE DEFINITION L-1011 TRISTAR

Volume II-L-1011-1 DATA

Nathan Shapiro, et al

Lockheed California Company

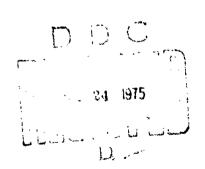
A Division of Lockheed Aircraft Corporation
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SEPTEMBER 1974 FINAL REPORT

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15. Supplementary Notes

16. Abstract Calculation procedures to describe airplane noise during takeoff and approach have been programmed for batch operation on a large digital computer. Three routines are included. The first normalizes far-field noise spectra to reference conditions and then determines spectra at various distances from the airplane, for airport elevations between sea level and 6000 feet and ambient temperatures between 30°F and 100°F. Overall sound pressure levels, A-weighted noise levels, perceived noise levels, and effective perceived noise levels are calculated. The second routine uses aerodynamic and engine thrust data to produce takeoff and approach flight path description. The basic takeoff is at constant equivalent airspeed, with thrust reduction or acceleration option after gear-up. The approach is along any constant glide slope between 3 and 6 degrees at constant airspeed, with a two-segment option. The last routine combines noise propagation and flight path information to produce constant noise contour "footprints." The program has been exercised on Lockheed L-1811-1 Tristar/Rolls-Royce RB.211-22 data, providing results in EPNdB and dBA.

- o Volume I contains detailed discussion of the calculation procedures.
- o Volume II includes L-1011-1 noise propagation and airplane performance and samples of contours.
- o Volume III presents the logic behind the calculations and outlines the commutational procedures.
- Volumes IV and V describe the computer program and give instructions for its operation.

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SECTION I INTRODUCTION

This is Volume II of the five-volume report on the development of procedures for computing the flyover noise of the Lockheed L-1011 TriStar for a variety of conditions. Volume I presents the technical background and describes the study leading to a computer program for airplane performance and noise calculations. Both the performance and the noise results are based on flight test development and certification measurements. The computer program has been exercised to generate the data presented in this volume in graphical form. These data, with appropriate interpolations, can be used for many noise studies where the detailed output of a computer run is not considered necessary.

The noise definition results are arranged in four sections:

o Noise Characteristics - This includes plots of effective perceived noise levels (EPNL) and A-noise levels (L_{Λ}) versus distance, from 200 to 12,800 feet, at a number of thrust settings. These thrust settings are expressed in terms of corrected fan speed $(N_1/\sqrt{\theta})$. The corrected fan speeds are related to airplane operational weights to facilitate correlation of the noise data with the airplane performance data. The noise characteristics apply to both the RB.211-22C and RB.211-22B ratings of the engine, requiring only proper selection of thrust settings. Flyover noise propagation is shown for six temperatures, between 30°F and 100°F, at sea level, including FAR Part 36 reference day conditions (77°F, 70% relative humidity). At 3000 and 6000 feet elevation propagation is shown for 77°F, 70% relative humidity only. Temperature and :levation correction curves are included to permit calculation of noise propagation characteristics at other temperatures and elevations. A table lists the one-third octave-band sound pressure levels, at 200 feet distance on a real Fail 36 reference day, from which the propagation data were computed. These spectra were derived from the L-1011 measurements made to demonstrate compliance with FAR Part 36. The remaining tabular data show EPML and LA versus distance, at various corrected fan speeds, with and without excess ground

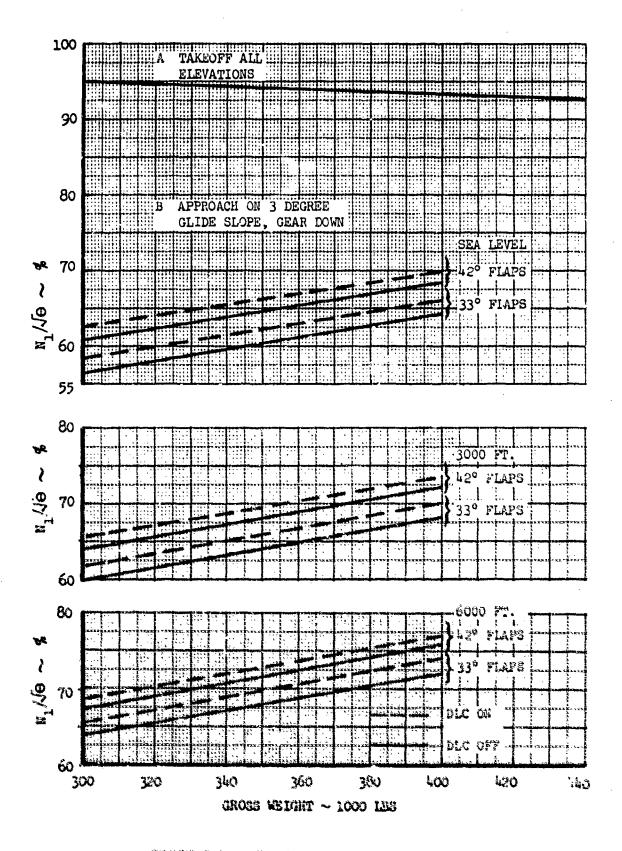
attenuation. Spherical spreading and atmospheric attenuation are used in all cases. Listings are given for each of the temperatures and elevations for which propagation curves are provided. These noise values with and without ground attenuation are needed for the calculations leading to the constant noise contours, referred to as footprints, discussed below.

- Takeoff Performance The aerodynamic characteristics of the L-1011 have been applied to produce takeoff performance data required to define airplane flyover distances for determining noise under the flight path. The results are integrated into takeoff nomographs which provide takeoff profiles for normal operating procedures, and which permit the determination of approximate noise levels, EPNL or L, below the airplane. More exact noise levels for any given takeoff profile may be obtained from the noise propagation characteristics of Section II. Since airplane performance is affected by engine rating, separate charts are provided for RB.211-22C and for RB.211-22B powered airplanes. Charts are included for each takeoff flap angle certified with each of the two engine ratings. The performance charts are for engine-bleed-on operation which results in slightly lower takeoff profiles and conservative noise level values. Bleed-off results, corresponding to the condition used for FAR Part 36 certification, may be obtained from the computer program.
- o <u>Approach Performance</u> At part power there is no difference between -22B and -22C engines, so only one set of approach nomogra has is necessary. One EPML chart and one L_A chart contain all necessary information for normal landing approaches with either of the two certified flaps (42° and 33°), with or without direct lift control (DLC), and along a glide slope between 3° and 6°.
- o <u>Noise Footprints</u> Sets of machine plotted constant noise contours, EPAL and Lie have been prepared for representative takeoff and approach procedures. These were selected to indicate the influence of operational weights and flap angles on noise exposure areas. An

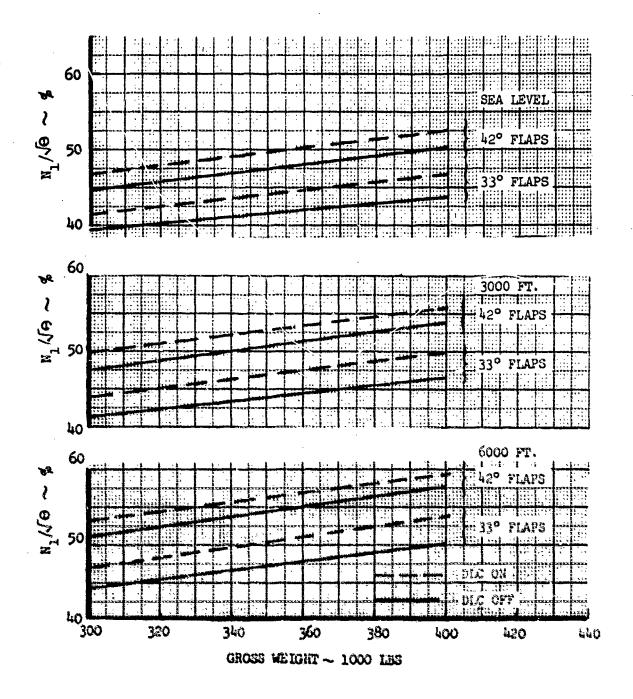
example of a takeoff thrust cutback and of a two-segment approach have also been included, to illustrate noise abatement procedures. Contours shown are in 10 dB steps starting with 80 EPNdB or 70 dBA. Computer output tabulation of the contour coordinates are provided for each footprint set.

Additional discussion of the data presented in this volume and of the methods by which they were obtained will be found in Volume I.

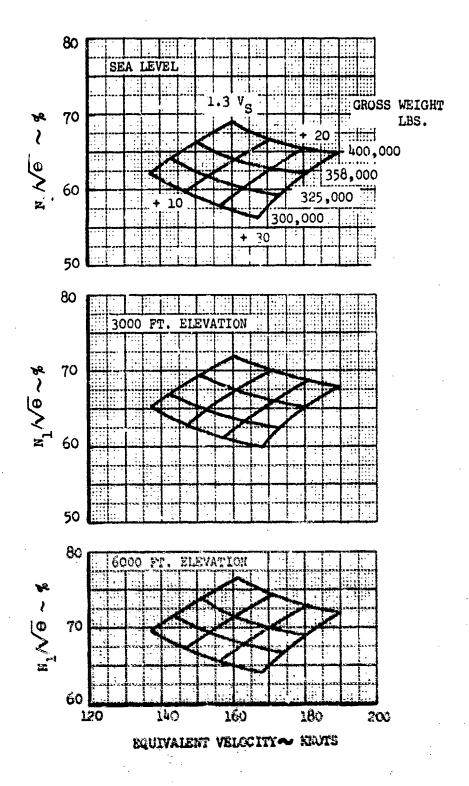
SECTION II NOISE CHARACTERISTICS



PIGURE 2-1 COMUNCTED FAN SPEED FOR 1,-1011-1
HOISE CALCULATIONS



Pigure 2-2 corrected van sprede for L-1011-1 noise calculations - approach on 6 degree glide slope, gear down



PICURE 2-3 CORRECTED FAR SINEDS FOR L-1011-1 ROISE CALCULATION, LEVEL FLIGHT 10 DEGREE FLAPS, GEAR UP

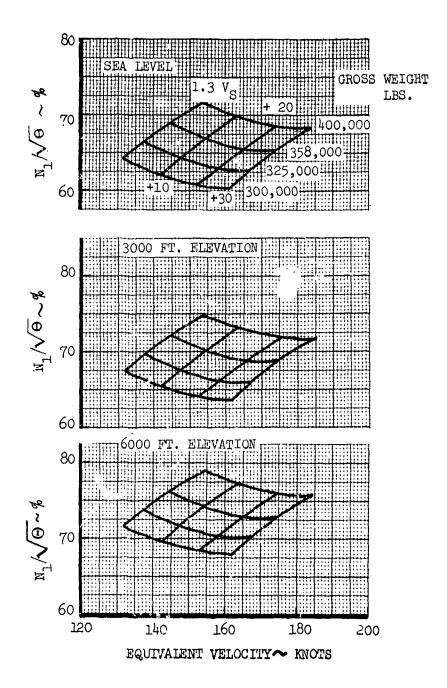
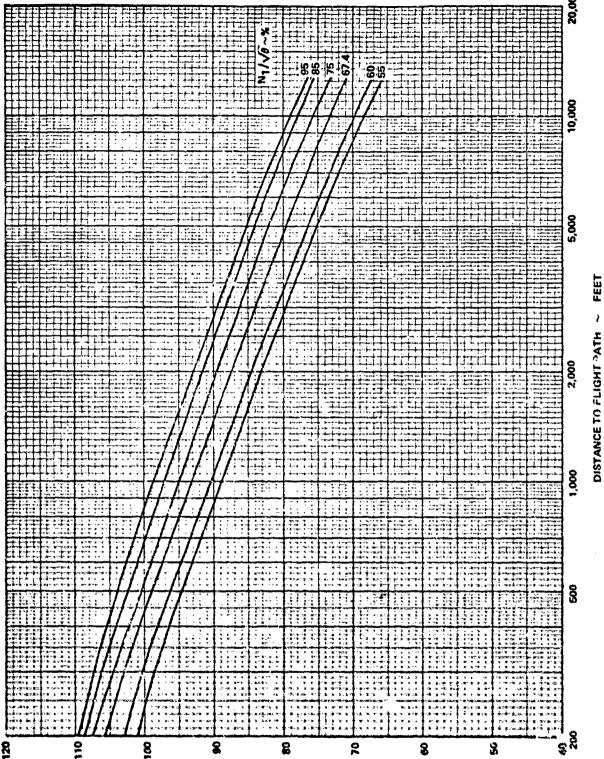


FIGURE 2-4 CORRECTED FAN SPEEDS FOR L-1011-1 NOISE CALCULATION, LEVEL FLIGHT 22° FLAPS, GEAR UP

L-1011-1/RB.211-22B NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 160 KTS SEA LEVEL 77ºF 70% RELATIVE HUMIDITY

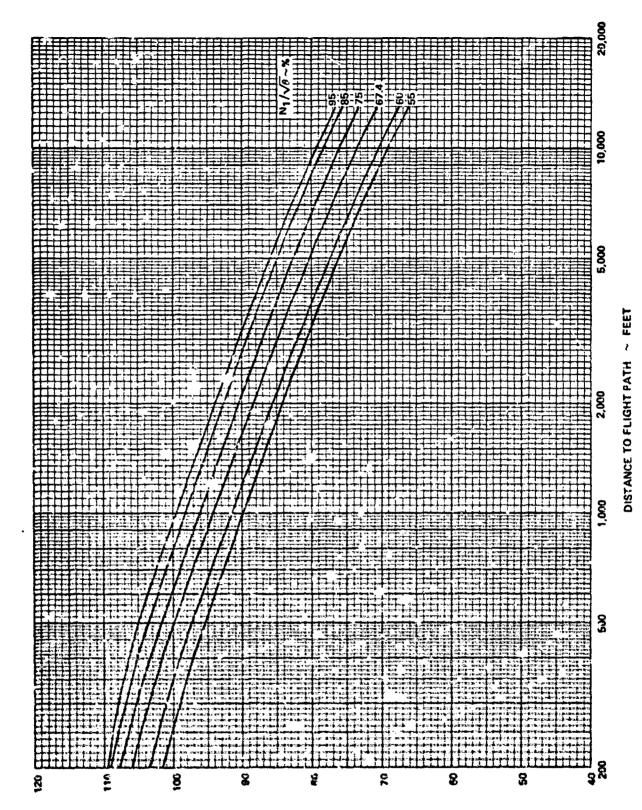
FIGURE 2.5

ELLECTIVE PERCEIVED NOISE LEVEL ~ EPNAB



ELLECTIVE PEACEIVED NOISE LEVEL ~ EPNAB

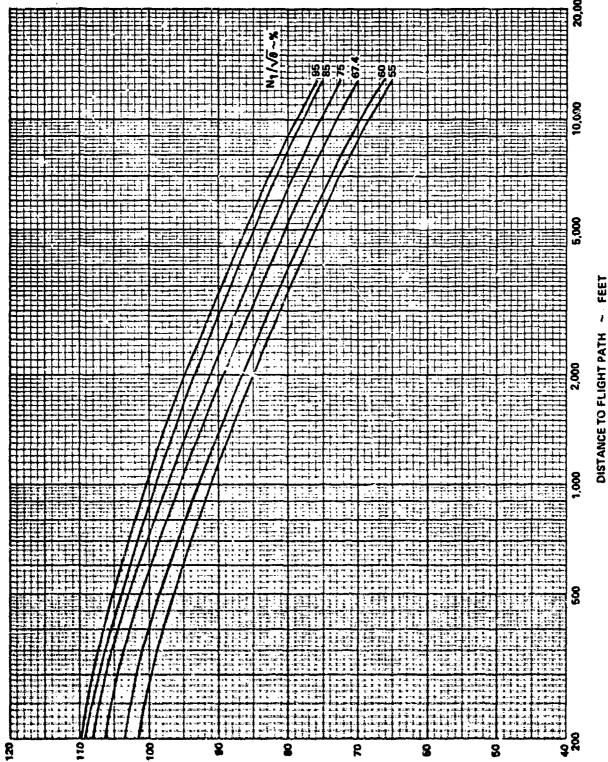
L.1011-1).RB.211-22B NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 160 KTS SEA LEVEL 30°F, 70% RELATIVE HUMIDITY FIGURE 2-6



L 1011-1/RB.211-228 NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 160 KTS SEA LEVEL 41ºF 70% RELATIVE HUMIDITY

FIGURE 2.7

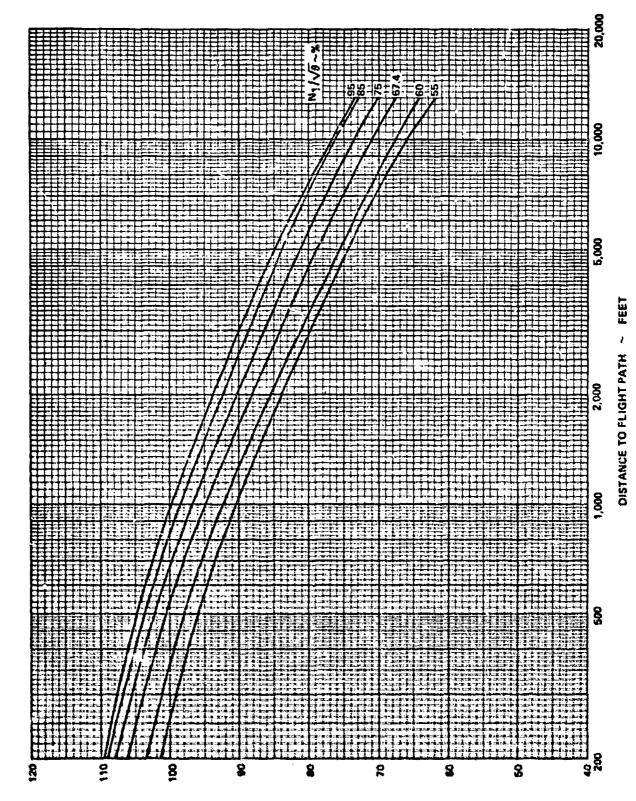
ELLECTIVE PERCE, VED NOISE LEVEL ~ EPNAB



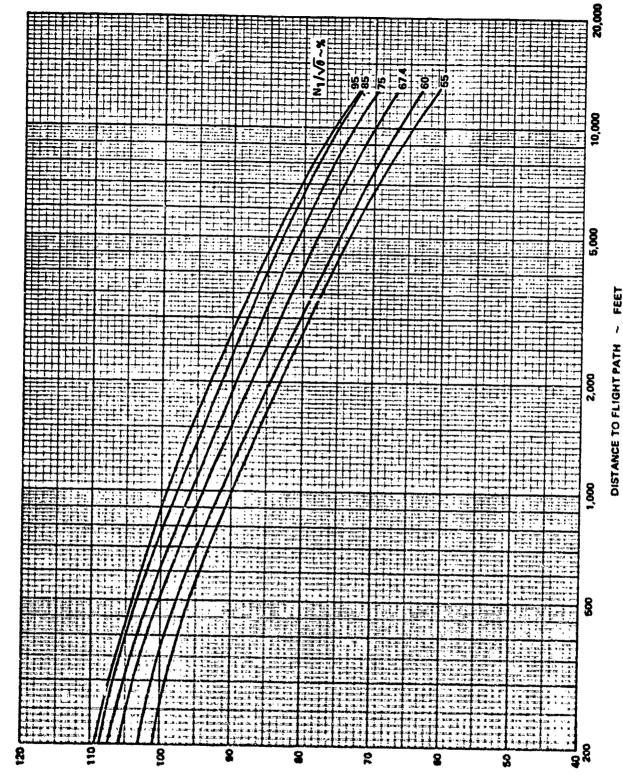
L-1011-1/RB:211-22B NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 160 KTS SEA LEVEL 59°F 70% RELATIVE HUMID:TY

FIGURE 2-8

ELLECTIVE PERCEIVED HOIST LEVEL ~ EPINGE



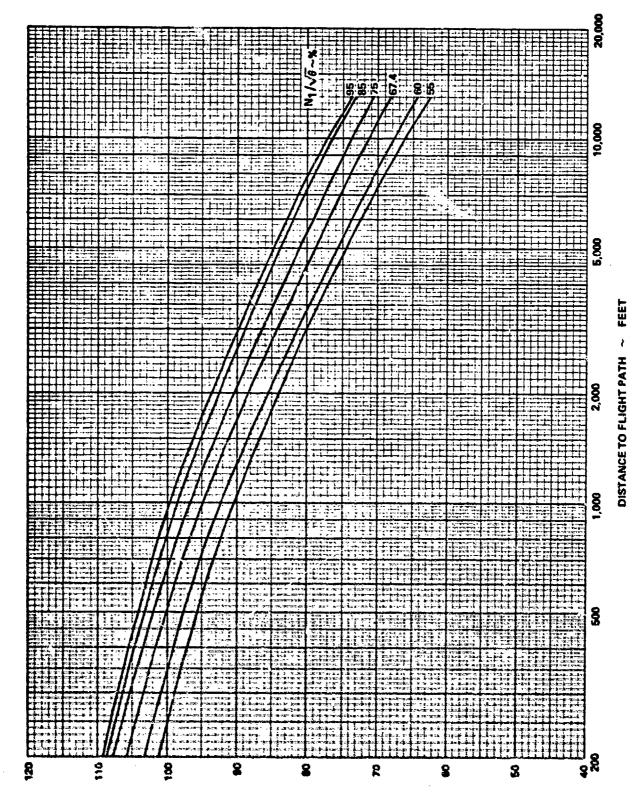
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L-1011-1/RB.211-228 NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 160 KTS SEA LEVEL 100°F 70% RELATIVE HUMIDITY

FIGURE 2:10

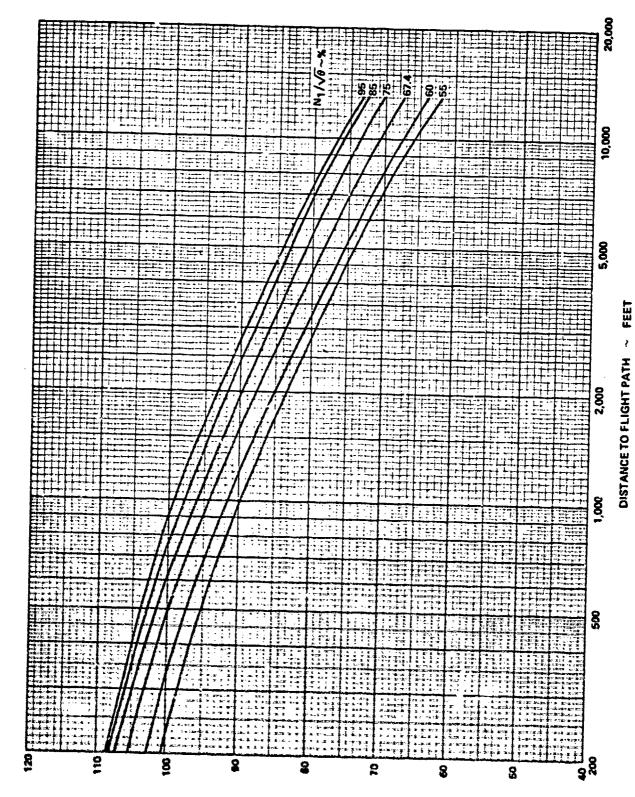
ELECTIVE PERCEIVED HOISE LEVEL ~ EPMA



L-1011-1/RB.211-228 NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 160 KTS 3020 FT. 77ºF 70% RELATIVE HUMIDITY

FIGURE 2-11

ELLECTIVE PERCEIVED NOISE LEVEL ~ EPINAS



L-1011-1/RB.211-22B NOISE PROPAGATION EFFECTIVE PERCEIVED NOISE LEVEL AT 180 KTS 6000 FT. 77°F 70% RELATIVE HUMIDITY

FIGURE 2.12

ELLECTIVE PERCEIVED NOISE LEVEL ~ EPNA

2-12

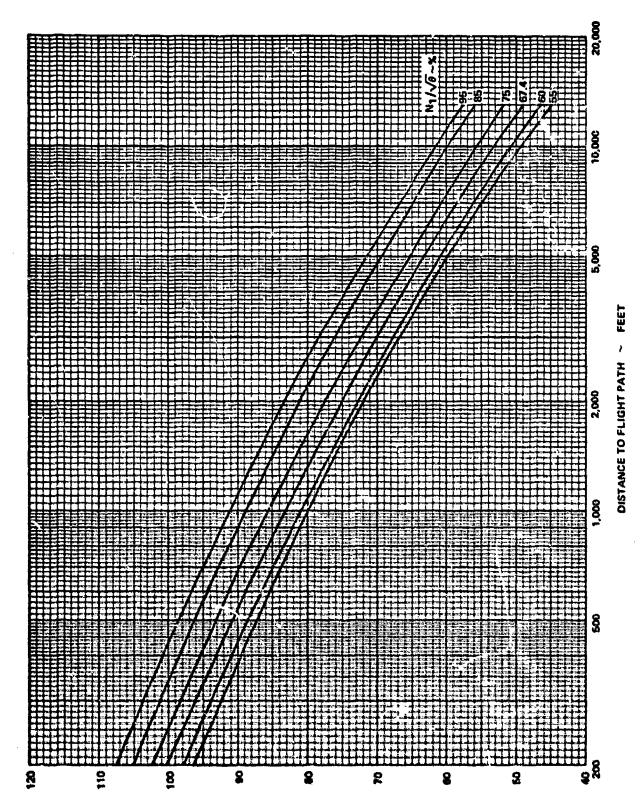
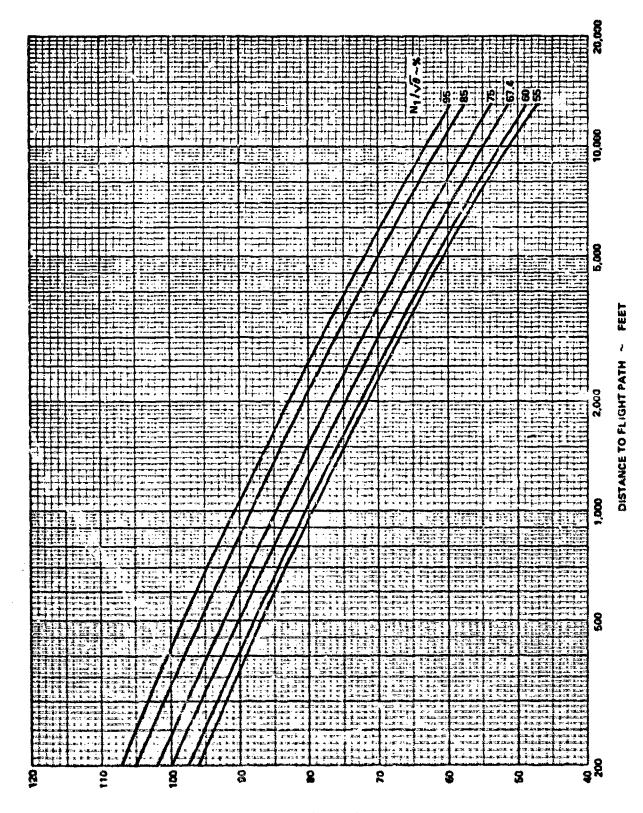


FIGURE 2-13 L-1011-1/RB-211-228 NOISE PROPAGATION
A-NOISE LEVEL
SEA LEVEL 77ºF 70% RELATIVE HUMIDITY

VIOLE LEVEL - day



L-1011-1/R8.211-228 NOISE PROPAGATION A-NOISE LEVEL SEA LEVEL 30°F 70% RELATIVE HUMIDITY

FIGURE 2:14

WHOISE FEART - 48V

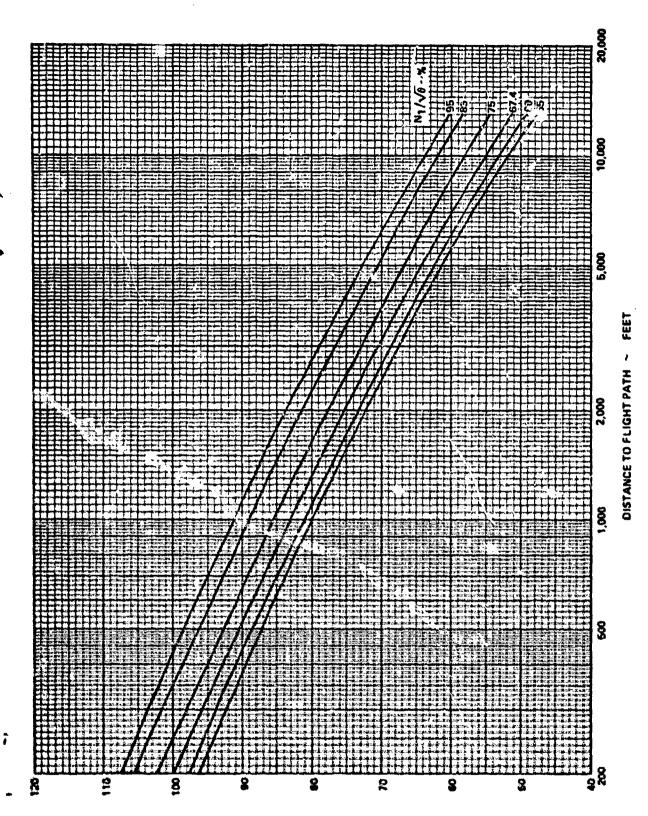


FIGURE 2-15 L-1011-1/RB.211-22B NOISE PROPAGATION
A-NOISE LEVEL
SEA LEVEL 41°F 70% RELATIVE HUMIDITY

WHO TEAST SHOW

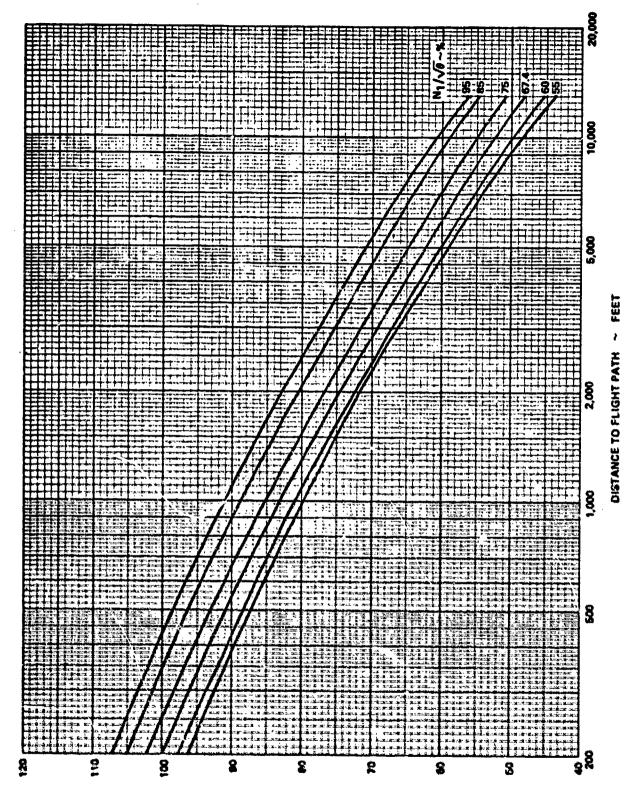


FIGURE 2:16 L:1011-1/RB.211-22B NOISE PROPAGATION
A-NOISE LEVEL
SEA LEVEL 69°F 70% RELATIVE HUMIDITY

PHOIZE FENET - PAY

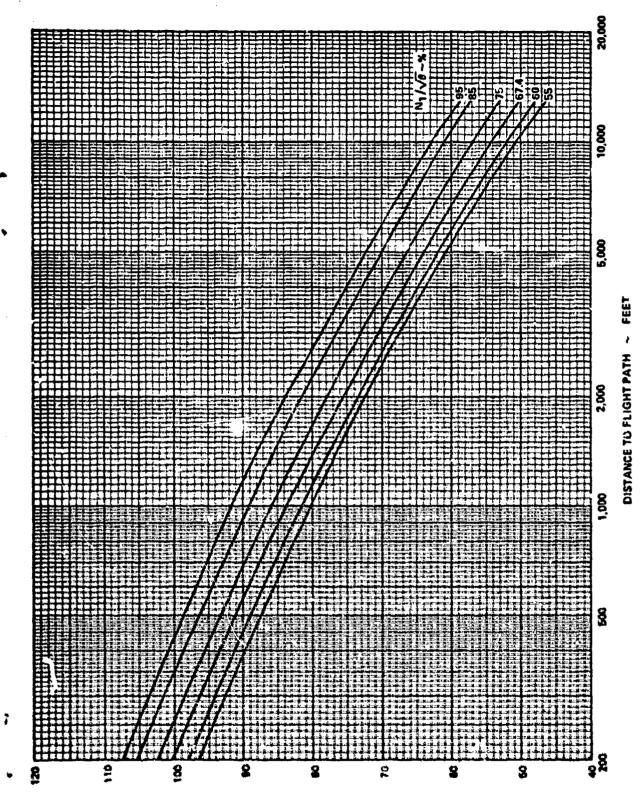
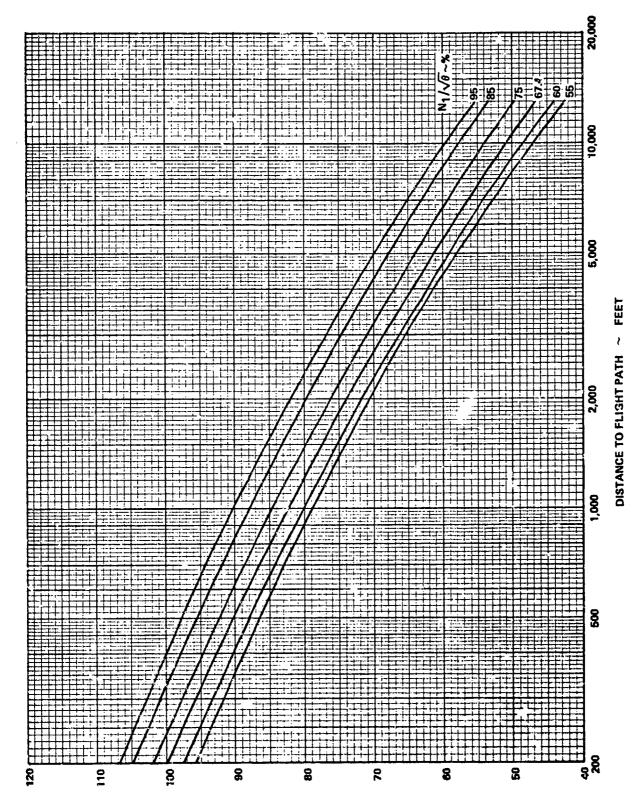


FIGURE 2:17 L-1011-1/RB.211-22B NOISE PROPAGATION
A-NOISE LEVEL
SEA LEVEL 86°F 70% RELATIVE HUMIDITY

WHOISE FEAST - TOW



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FIGURE 2-18 L-1011-1/RB.211-22B NOISE PROPAGATION
A-NOISE LEVEL
SEA LEVEL 100⁰F 70% RELATIVE HUMIDITY

VINIZE FENET ~ 98¥

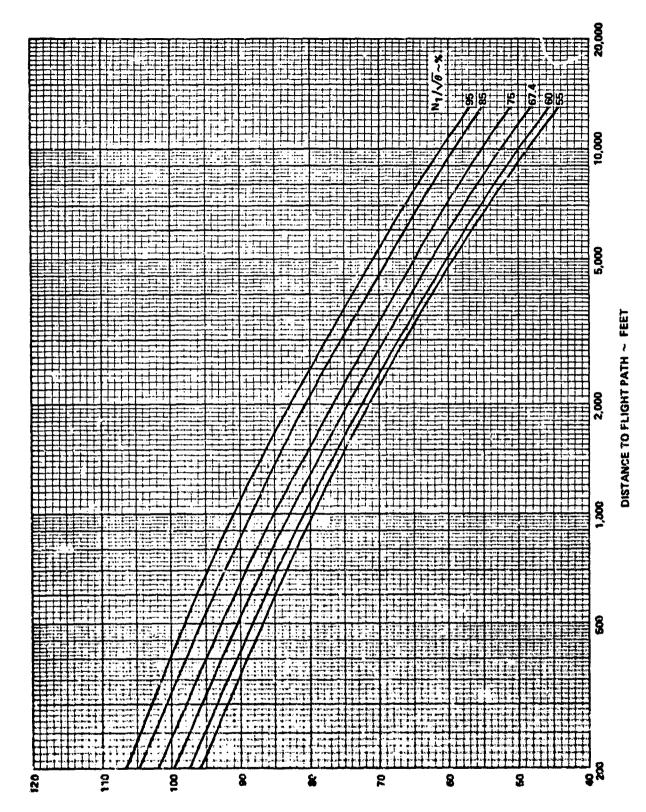


FIGURE 2:19. L-1011-1/RB.211-228 NOISE PROPAGATION A-NOISE LEVEL 3000 FT. 77°F 70% RELATIVE HUMIDITY

MOIZE FEAET - 434

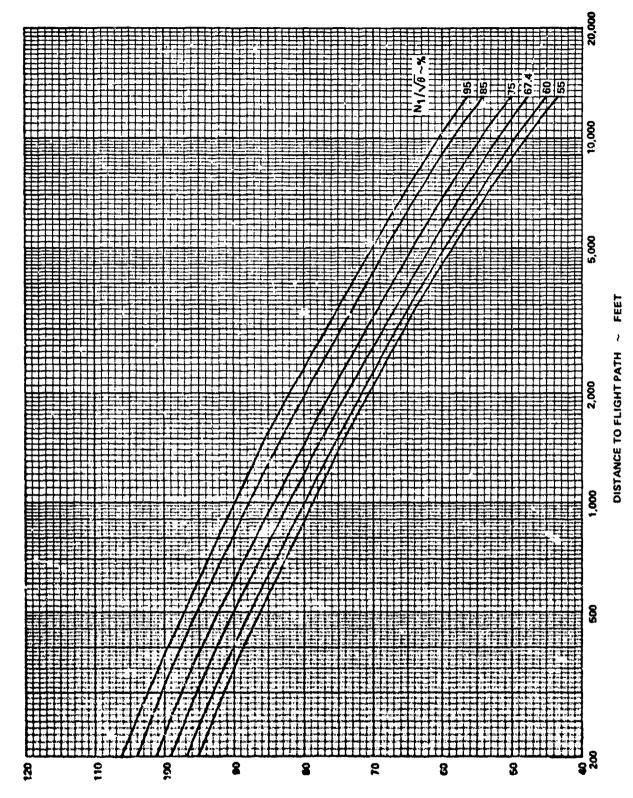


FIGURE 2:20 L-1011-1/RB.211-228 NOISE PROPAGATION A-NOISE LEVEL 6000 FT. 77°F 70% RELATIVE HUMIDITY

wholse feaet - qu

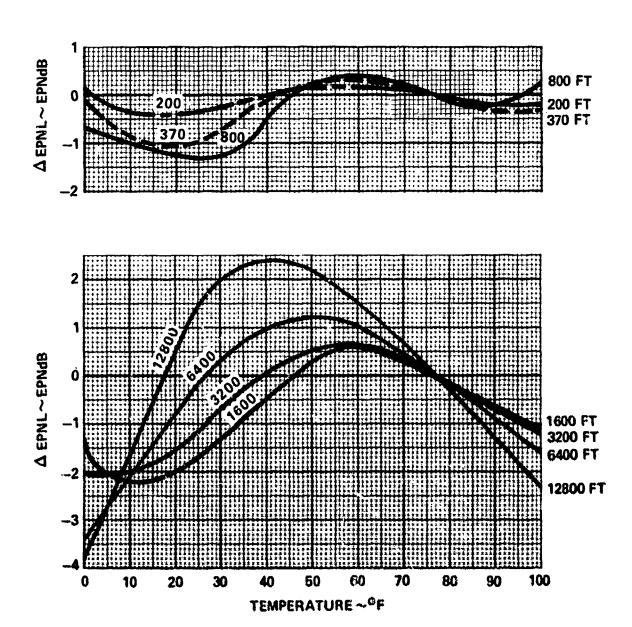


FIGURE 2-21 EFFECTIVE PERCEIVED NOISE LEVEL VS AMBIENT TEMPERATURE 90% N $_1/\sqrt{\theta}$

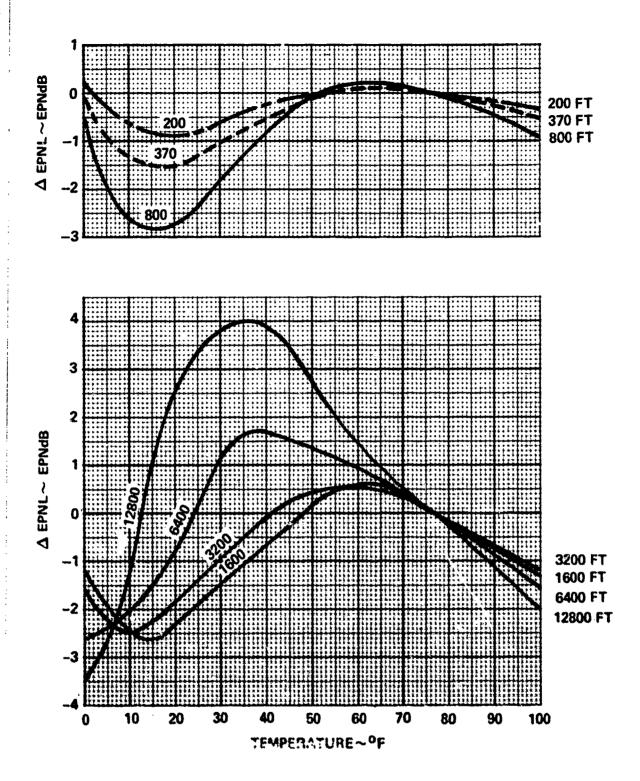


FIGURE 2-22 EFFECTIVE PERCEIVED NOISE LEVEL VS AMBIENT TEMPERATURE 85% N $_1/\sqrt{\theta}$

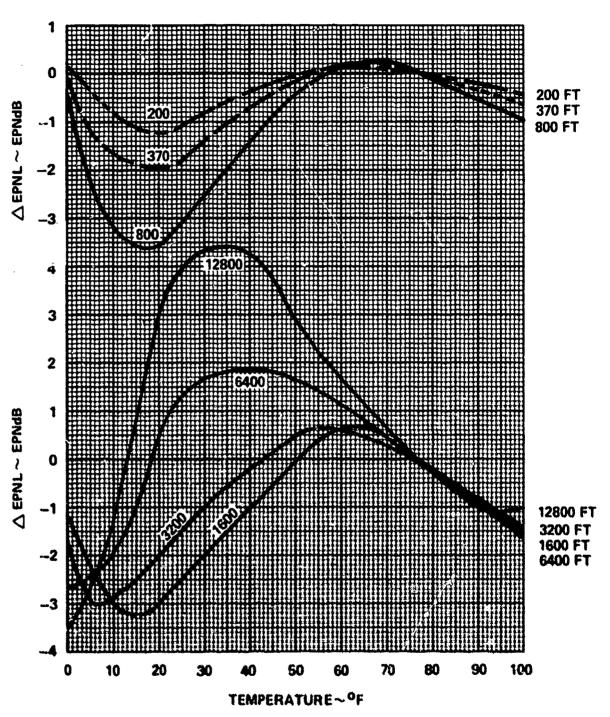
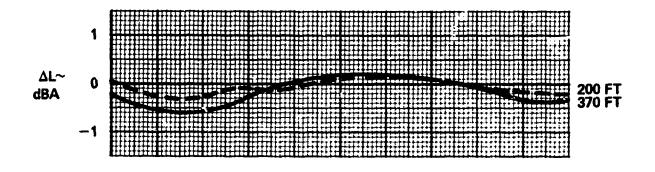


FIGURE 2-23 EFFECTIVE PERCEIVED NOISE LEVEL VS AMBIENT TEMPERATURE 67.4% N $_1/\sqrt{6}$



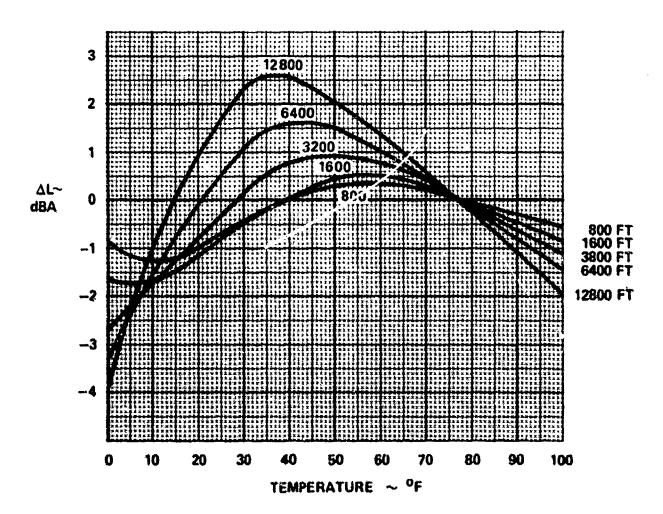
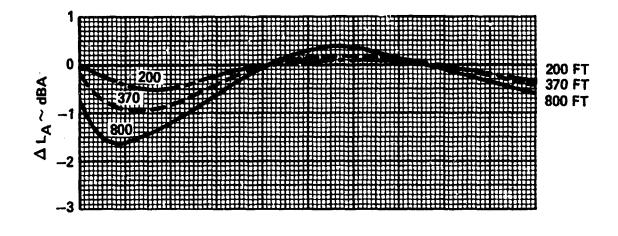


FIGURE 2-24 \star A-NOISE LEVEL VS AMBIENT TEMPERATURE 90% N₁ $\sqrt{\theta}$



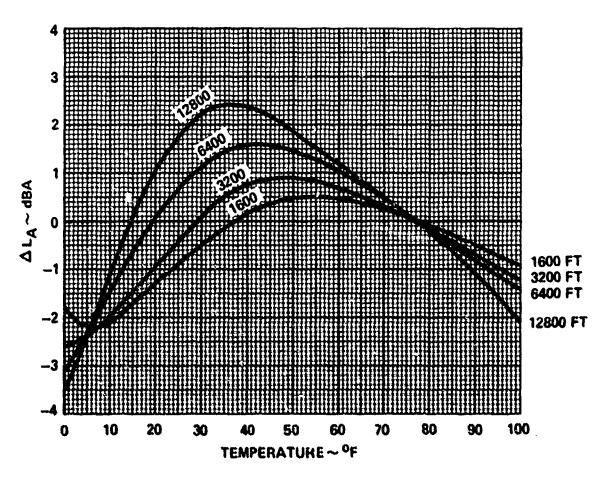
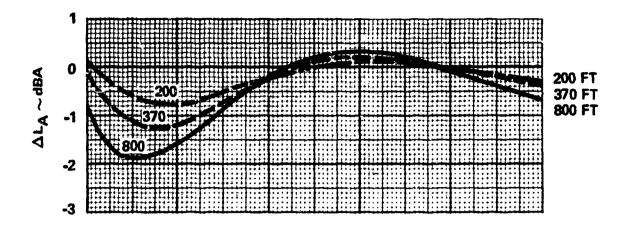


FIGURE 2-25 A-NOISE LEVEL VS AMBIENT TEMPERATURE +85% N₁//8



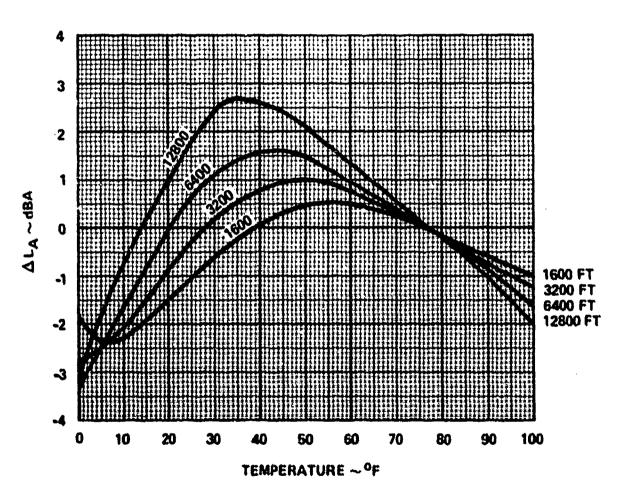
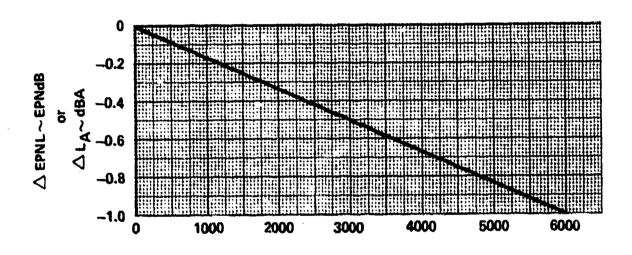
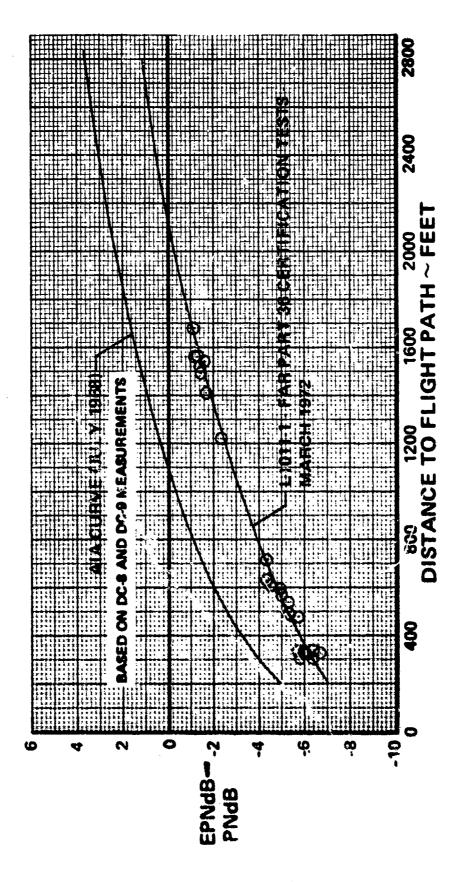


FIGURE 2-26 A-NOISE LEVEL VS AMBIENT TEMPERATURE 67.4% N $_1/\sqrt{n}$



AIRPORT ELEVATION ~ FT

FIGURE 2-27 PC CORRECTION TO NOISE LEVEL FOR A!RPORT ELEVATION



Approximate Conversion from Effective Perceived Noise Level to Perceived Noise Level (For extrapolation to greater distances, EPMLAB-PNAB increases 3 18 for doubling of distance). Figure 2-28.

N, W 3, \$	55	9	. 69	ħ-19	70	75	&	&	8	8
1/3 Octave Band Center Frequencies, Hz				Sound Pre	Pressure Levels,	æ	re 0.0002	microbar		
20	74. 78	85.69	96.90	87.47	88.08	89.23	90.33	91.40	92.43	92.43
63	79.32	80.25	81.21	81.68	82.21	83.25	8.48 8.48	85.44	86.59	86.59
8	8.90	77.32	78.85	79.66	80.60	82.55	17.48	87.09	89.67	89.67
100	86.05	₩.7±	87.77	88.39	89.15	88.88	8.8	95.39	98.16	98.16
125	88.81	8.8	98.93	æ. €6	\$. 8.	% .52	28.32	99.58	100.90	100.30
160	88.56	92.19	95.22	8.16	97.65	99.48	100.72	101.36	101.40	101.40
300	84.63	86.32	88.00	88.79	89.65	91.29	8.8	94.50	8.07	₩.w
250	85.39	87.36	89.38	90.36	91.45	93.57	95.74	97.97	300.25	100.25
315	87.80	8 .0.0	90.51	91.28	92.17	₽.03	% 8.8	98.35	100.82	30° 001
00 1	87.77	88.56	89.63	90.25	% .98	8.69 9.60	₽.50 \$	89. 89.	99.13	99.13
500	88.27	88. 88.	89.57	90.01	90.55	91.73	93.73	7.75	96.56	8.3
630	87.39	88.36	89.47	8.°9	90.72	% n.%	93.64	95.31	थ.१७	99.07
800	86.19	86. 70	87.50	87.99	88.60	89.98 89.98	91.66	93.63	95.88	8. 8.
1000	8 .8	86.19	88 .75	87.16	87.71	89.03	90.74	92.33	95.30	95.30
1250	85.50	86. 86.	88.17	88. 8.85	89.61	91.12	17.26	94.37	% & &	8.8
1600	83.89	05.49	87.11	87.89	88.74	90.37	85.02 98.02	93.67	95.34	97.02
2000	84.53	85.73	87,14	87.89	88.75	90.56	92.57	94.78	97.20	98.95 95.95
2500	85.15	87.25	89.13	89.95	98.78	92.20	93.39	24.36	95.10	95.61
3150	83.72	86.55	88.93 93.93	89.91	8. 8.	92.35	93.40	94.01	94.17	4.17
0003	8. 8.	3.53 Si	87.31	88.18	89.03	90.38	91.35	ድ 8	92.20	92.20
2000	81.8	84.07	8 8	8 6	87.45	87.83	87.33	85.95	63.69 83.69	83.69
6300	73.56	81.93	84.10	\$. 5 5. 6	85.17	85.13	83.99	81.75	78.41	73.41
3000	3	36.50	8.6 4.8	7 50	8 8 8 8	9 K	20.70	8.6	74.22	8. £. 5
7000	16.47	6.0	3	14.6	3.5.	13.51	06-77	06.0	10.60	10.60
			R.	distion A	Radiation Angles, degrees	grees				
	65.46	94.59	65.46	94.59	94.59	94.59	82.41	82.41	82.41	82.41
		4	(,					
		Dura	tion Corr	ections 1	Duration Corrections Normalized	to 160 Knots,	Knots, dB			
	-8.367	-8.367	-8.367	-8.367	-8.367	-8.872	-9.387	-9.902	-10.430	-10.943

TABLE 2-I L-1011/RB.211-22B NOISE SPECTRA AT 200 FEET SEA LEVEL, 77° F, 70% RELATIVE HANDITY

TABLE 2-II L-1011-1/RB.211-22B EFFECTIVE PERCEIVED NOISE LEVEL PROPAGATION SEA LEVEL, 77° F, 70% RELATIVE HUMIDITY

TABLE 2-III L-1011-1/RB.211-22B EFFECTIVE PERCEIVED NOISE LEVEL PROPAGATION SEA LEVEL, 30° F, 70% RELATIVE HUMDITY

#, 0/Y. N	55	9	67.4	75	85	\$6
Distance, Feet		EPIL, EPIGB,	EPMdB, with Extra Ground Attenuation	tenuation		
000	6.%	98.8	101.5	103.2	104.6	105.4
or m	6.16	93.8	8		8.8	100.9
500	83.c	7. 3	4.78	, v.,	21.7	93.1
1600	73.3	7.47	77.9	80.2	82.8	83.6
3200	4. 20 4.	66.7	70.0	72.4	74.7	75.5
0079	£.0%	60.09 00.09	64.3	66.7	0.69	2.69
12800	\$2.4	4. 45 4.	58.0	60.5	65.9	63.2
	20	EFIL, EFIdB, without	thout Extra Ground Attenuation	tt-enumtion		
0000	101.0	102.9	105.6	107.3	108.5	109.4
370	ં. જ	98.8	101.3	103.1	104.7	105.8
000	50.3	92.5	٠ <u>٠</u> ٠	8.8	98.8	100.3
26.00	න. න්	8 8	688.9	91.0	93.3	さる
200	79.1	80°3	83.1	85.4	87.7	88.9
64. 00	77. 8.	74.0	77.3	79.4	81.8	8 6.
12800	Q	67.0	70.5	73.0	75.4	76.2

THE PROPERTY OF THE PROPERTY O

TABLE 2-IV L-1011-1/RB.211-22B EFFECTIVE PERCEIVED NOISE LEVEL PROPAGATION SEA IZ/EL, 41° F, 70% RELATIVE HUMIDITY

	95		105.6	93.0	76.1	63.7		9.601 9.601	101.3	::: 88	83.6 76.6
	85		104.9	92.68 93.4	75.3	63.1		108.9	000 000 000	98.6	75.5
TITTIMOU	75	tenuation	103.7 98.8	90.2 80.9	73.0 67.2	60.7	ttenuation	107.7	8 5 70 0	1,8°	80.1 73.3
r) (of neutral are nominal	t**19	EPNdB, with Extra Ground Attenuation	97.01	88.4 78 . 6	70.7	58.2	EPNdB, without Extra Ground Attenuation	106.0	9,8 9,0 0,0	83.9	77.77
The franchist with	9	EPNL, EPNdB, with	99.2 4.49.0	85.9 75 . 4	म• <u>८</u> 9	54.7	EPNL, EPNdB, withou	103.3	93.8 87.2	81.2	74.8 67.4
	55		97.3 92.6	o. c. 3. t.	66.1 59.9	52.7		4.101 97.6	991.9 93.99	80.0	73.6 66.1
	$N_1 \sqrt{\theta}$,%	Distance, Feet	200	800 1600	3500 6400	12800		200 370	800 1600	3200	6400 12800

ESTER STATE OF SERVICE STATE S

TABLE 2-V L-1011-1/RB.211-22B EFFECTIVE PRECEIVED NOISE LEVEL PROPAGATION SEA LEVEL, 59° F, 70% RELATIVE HUMIDITY

	95		105.8	9. 46 9. 46	84.7 7.4.7	70.1		109.8	101.9	% 6	83.7	75.9
	85		105.2	93.5	3.E	69.5		109.2	100.8	80°2	92.6	75.1
VAS HUMINITY	75	Attenuation	104.1		73.5	67.1 59.9	Attenuation	108.2	9942		80°5	72.6
A LOW MALETINE HUMINITY	4.79	EFNdB, with Extra Ground Attenuation	102.3 97.8	99.5 7.0.3	77.7	64.7 57.4	EFNdB, without Extra Ground Attenuation	106.5	97.5	64.7	77.8	1.0%
60 (1111))	. 09	EPML, EPMdB, wi	99.6	87.0 76.1	6.19	61.4 54.0	EPNL, EPNdB, with	103.7	9.45 9.45 9.65	81.9	8.47	8
	55		97.6	74.1	66.5	51.8 51.8		101.7	93.1 87.1	81	5. kg	***
	R. N. B. S.	Distance, Feet	370	1500	3200	12800		200	800 1600	88	04:00 12800	

TABLE 2-VI L-1011-1/RB.211-22B EFFECTIVE FERCEIVED NOISE LEVEL PROPAGATION SEA LEVEL, 86° F, 70% RELATIVE HUMIDITY

					TTTTTTTTT		
	N. 40 , K	55	9	4.79	22	85	95
	Distance, Feet		EPNI, EPNAB, w	with Extra Ground Attenuation	ttenuation		
	200	4.72	4.00 4.00 4.00	102.1	103.8	105.0	105.6
	800	rg バジ	. 4. . 4.	80.00 0.000	8.8 9.8	6.26 6.36	7. TOT 0. 78
	1600	24.0	75.5	78.7	90.0	83.4	, a
2 -	3200	65.3	6.99	70.2	72.5	74.8	75.5
al.	O-100	58.0	59.9	63.2	65.7	68,1	68.6
	12800	2.64	51.8	55.4	57.9	60.5	9.09
		6	EPNL, EPNdB, without	oout Extra Ground Attenuation	Attenuation		
	200	101.5	103.5	106.2	107.9	109.0	109.5
	370	97.9	8.6	102.6	104.3	105.5	106.2
	0	28.5	さま	% o.	98.7	100.3	101.3
	1600	88 0:	87.8	80°3	92.2	でき	95.7
	3200	79.3	90.6	83.5	8 5 .8	8 7	- 2. 80 80 80
	9700	71.6	72.9	76. 2	78.6	81.1	ශ්
	12800	62.2	1.19	6.79	70.4	73.0	73.4

	95		105.4	83.47 64.68 64.69 64.69		1001 0.001 0.000 0.001 0.001 0.01 0.01
L PROBACATION	85		104.8 100.3 92.4	82.5 67.3 59.4		108.8 105.2 99.7 93.5 87.4 71.8
PERCEIVED NOISE IEVEL PROPAGATION RELATIVE HUMIDITY	75	Attenuation	103.6 98.9 9.0	78 44 8 4 6 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	Attenuation	107.7 103.9 98.0 91.5 85.1 77.6
	4.79	EFNL, EFNdB, with Extra Ground Attenuation	101.9 97.1 88.4	787 69.5 54.5 54.2	out Extra Ground Attenuation	106 108 108 108 108 108 108 108 108 108 108
L-1011-1/RB.211-22B EFFECTIVE SEA LEVEL, 100° F, 70%	09	EPML, EPMdB, wi	99.99 9.4.8 9.7.8	25.00 25.00 20.00	EPNL, EPNdB, without	103.3 99.5 93.8 86.8 77.7 63.1
Table 2-vii L	55		99 92.59 92.50	73.4 56.5 56.5 4.7.9		101.3 97.6 91.8 85.2 76.4
	$N_1/\sqrt{\theta}$, &	Distance, Feet	200 370 800	1600 3200 6400 12800		200 370 1600 3200 6400 12800

TABLE 2-VIII L-1011-1/RB.211-22B EFFECTIVE PERCEIVED NOISE LEVEL PROPAGATION

		3000 FEET, 7	77° F, 70% RELATIVE HUMIDITY	E HUMIDITY		
N. 1/10,%	55	9	4.79	75	85	95
Distance, Feet		EPML, EPNdB, W.	EPNdB, with Extra Ground Attenuation	Attenuation		
200	97.0	0.66	101.8	103.5	104.6	105.2
5/7 800 00	6-1. 8-2.	88 	97.2 88.9	98.9 9.50 6.7	100.3	101.0
1600	73.8	75.4	78.5	80.7	83.2	8
3500	65.3	8.99	70.1	72.4	74.7	75.4
6400	58.7	59.9	63.3	65.7	68.1	68.7
75000	49.6	55.0	55.6	58.1	2.09	60.8
	-	EPML, EPNdB, without	nout Extra Ground Attenuation	Attenuation		
200	101.1	103.2	105.9	107.6	108.6	109.2
370	9.76	9.66	102.3	104.0	105.2	105.9
C ()	87. E.	2.50	φ. %	98.6	1001	101.1
1600	 8	67.9	7. 06	85.3	なら	95.7
3200	79.4	80.7	83.5	85.8	88.1	68
0,000	71.8	73.1	76.3	78.7	81.2	82.1
20021	62.7	2.40	68.2	70.7	73.3	73.8

	TABLE 2-IX	L-1011-1/RB.211-22B EFFECTIVE PERCEIVED NOISE 6000 FEET, 77° F, 70% RELATIVE HUMIDITY	B EFFECTIVE PERCE F, 70% REIATIVE	IVED NOISE LEVEI HUMIDITY	LEVEL PROPAGATION	
# 7 9 7 H	55	09	67.4	75	85	95
Distance, Feet		EPNL, EPNdB, wi	EPNdB, with Extra Ground Attenuation	ttenuation		
200	% 8	98.6	101.3	103.0	104.1	7.401
200	83.9	. 80. 6 80.	- 	888 Voi 0	, 878 S	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
8 88 8 83 8 83 8 83 8 83 8 83 8 83 8 83	73.3	74.8	78.0	20.5	- 0. - 2. - 2.	88.45 6.04
1.0 8.0 8.0	57.6	59.4	62.7	65.2	67.6	68.1
12800	1,9.1	51.5	55.1	57.6	60.1	60.3
		EPNL, EPNdB, with	without Extra Ground Attenuation	Attenuation		
200	100.6	102.7	105.4	107.1	108.1	108.7
200	91.8	93.7	2 E. 96		99.6	100.6
1600	85.6 78.0	4.78 500.0	88 9.0	91.8 85.3	93.9 87.6	98 88 6
12800 12800	71.3	72.6	75.8 67.6	78.2	80.6 72.7	81.6 73.5

TABLE 2-X L-1011-1/RB.211-22B A-NOISE LEVEL PROPAGATION SPA I PROPAGATION

			SEA LEVEL, 770 F,		70% RELATIVE HUMIDITY		
	N. 18. 38	55	9	ħ° L9	5	85	95
	Distance, Feet		LA, dBA, w	dBA, with Extra Ground Attenuation	ttenustion		
	200	92.2	93.7	%	5.86	101.1	103.2
	370	85.3	88.7	88.9	91.2	د. ن.	8. ~
	800	2.47	75.9	78.1	₹. 08	с , 1 8	e. 98
	1600	62.4	63.6	65.7	68.1	72.1	Z* ħZ
	3,200	51.8	53.0	55.3	57.8	61.5	63.5
2	00 1 3	8.≥4	ट. च्य	15.7	49.3	53.0	8° 75.
÷0	12800	8.5	34.3	37.2	39.9	13.6	45.3
			LA dad, with	without Extra Ground Attemuation	Attemation		
	200	86.2	97.8	1001	102.3	105.0	107.2
	37.0 0.00 0.00 0.00	88 2	හු ස සා ය	<u>क</u>	% % 	99.2	101.4
	3	2.5.	75.5	77.77	80.0	83.6	85.8
	88	65.9	6.99	689	71.2	75.0	77.2
	6400	.i.	57.3	\$65°	61.9	65.8	67.8
	12800	6.11	7.01	0 64	51.7	55.6	c.).c

TABLE 2-XI L-1011-1/RB.211-22B A-NOISE LEVEL PROPAGATION SEA LEVEL, 30° F, 70% RELATIVE HUMIDITY

60 67.4 75 LA, dB4, with Extra Ground Attenuation 93.3 95.5 88.3 90.6 75.4 77.4 79.8 68.0 53.6 55.8 58.3 45.4 47.9 50.5 36.6 39.4 42.1 LA, dBA, without Extra Ground Attenuation 97.4 99.6 101.9 97.4 99.6 101.9 97.5 82.9 84.9 87.2 77.1 79.4
67.4 75 1th Extra Ground Attenuation 95.5 88.3 77.4 65.6 65.6 55.8 58.3 47.9 50.5 39.4 hout Extra Ground Attenuation 99.6 93.3 84.9 87.2 77.1 79.4
75 d Attenuation 97.8 90.6 79.8 68.0 58.3 50.5 42.1 ad Attenuation 101.9 95.6 87.2 77.4

	95		ట్ల 88 కళ్ళా బంచం చేయి	C-3+	107.3 101.4 101.4 88.5 78.0 69.0
ОМ	98		101 124 12.53 12.53 13.53 14.53 15.5		105.1 99.2 91.3 83.8 67.8 58.1
e level propagation e humidity	75	temation	99 99 86 87 7 7 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	39.3 42.0 Ground Attenuation	108.2 98.0 9.0 6.0 1.0 6.3 7.0 6.3 7.0 6.3 7.0 6.3 7.0 6.3 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8
I L-1011-1/RB.211-22B A-NOISE SEA LEVEL, 41º F, 70% RELATIVE	4.79	LA, dBA, with Extra Ground Attenuation	95.8 88.7 78.0 76.0 1.8 1.8		99.9 93.8 77.8 61.1 51.6
-XII L-1011-1/RB SEA LEVEL, 41	09	LA, dBA, with	93. 6.7. 6.7. 6.5. 6.5. 6.5. 6.5.	36.7 L, dBA, without Extra	97.7 83.5 67.8 4.99.1
TABLE 2-XI	55		667-788 468-685-1	35.1	909879874 3098748874 309674
	$n_1/\sqrt{\theta}$,\$	Distance, Feet	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0 0,000 0 0 0	12800	200 370 370 370 6400 6400 6400

TABLE 2-XIII L -1011-1/RB.211-22B A-NOISE LEVEL PROPAGATION SEA LEVEL, 59º F. 70% RELATIVE HIMIDITY

		SEA LEVEL, 59	SEA LEVEL, 59° F, 70% RELATIVE HUMIDITY	HUMITOITA		
N (O)	55	09	4.79	75	85	95
Distance, Peet		LA, dBA, with	LA, dBA, with Extra Ground Attenuation	enuation		
200	۳. و	93.8	86.1	98.3	101.2	103.3
8	50. kg	8 5 5 6	89.1	91.3 7.3	<u>♀</u>	88
1600	65.9	0.49	66.1	68.5	1.00	1 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3280	52.5	53.7	55.9	58.4	62.1	1.49
6400	43.8	45.1	47.5	50.1	53.8	55.7
12800	33.9	35.6	38.4	41.1	8• ग्रे	16.5
		LA, dEA, withou	dEA, without Extra Ground Attenuation	tenuation		
200	7.98	6.76	100.2	102.4	105.2	5 20L
370	90.5	91.9	5.46	₹	4.66	101
8 00	88 	○	86.1	88.4	91.7	03.0
1600	75.1	76.2	78.2	80.5	.± 	%
32.00	66.7	67.8	2.69	72.1	75.8	78.0
<u>ල</u>	57.4	58.5	60.5	63.0	6.99	689
12800	9.91	18.0	50.4	53.1	57.0	58.9

TABLE 2-XIV L-1011-1/RB.211-22B A-NOISE LEVEL PROPAGATION SEA LEVEL. 86° F. 70% RELATIVE HIMIDITY

	95		103.1	. r. 98	0.4%	63.1	7. 75	9- 11		107.1	101.2	93.3	(%) (%)	. 6 . 6	67.3	56.7
	дŞ		101.0	83.9	71.9	61.2	52.6	43.0		105.0	99.1	91.1	83.2	9° †2	65.3	54.9
HUMIDITY	75	enustica	91.0	80.1 1.08	67.8	57.5	6.84	39.3	tenuation	102.2	8.1	87.8	79.6	70.8	61.4	51.0
F, 70% RELATIVE HUMIDITY	4.79	dBA, with Extra Ground Attenuation	89.88 6.66	77.8	4.59	55.0	7.97	36.5	Extra Ground Attenuation	100.0	93.9	85.5	77.3	68.4	58.9	48.3
SEA LEVEL, 86°	9	LA, dBA, with F	93.6 86.5	75.7	63.3	52.7	43.7	33.6	LA, dBA, without	7.76	91.6	83.4	75.3	8.5	26.7	45.6
	55		92.1 85.1	7. 1.7	62.1	51.4	12.2	31.8		8.1	8.5	8 .:	74.2	65.4	55.5	0.44
	N. H. A.	Distance, Feet	200	8	1500	888	0019	12800		200	370	800	1600	8	9	12800

TABLE 2-XV L-1011-1/RB.211-22B A-NOISE LEVEL PROPAGATION SEA LEVEL, 100° F, 70% RELATIVE HUMIDITY

		SEA LEVEL, 100	SEA LEVEL, 100 F, 70% RELATIVE HUMIDITY	HOMIDITY :		
N. A.B.	55	99	4.79	75	85	95
Distance, Feet		LA, dea, with	LA, dEA, with Extra Ground Attenuation	enuation		
200	91.9	93.4	95.7	97.9	100.8	102.9
370	o, æ	86.3	88.5	200.4	o. 3.	8
80	74.1	75.3	4.77	7.67	83.	, α i α
1600	61.7	62.8	65.0	4.79	71.5	3 S
3200	50.8	52.1	7,45	26.9	60.7	
6400	41.3	42.9	45.5	78.7	51.9	02.00
12800	30.5	32.5	35.5	38.3	12.0	13.6
		LA, dBA, withou	dBA, without Extra Ground Attenuation	tenuation		
200	0.8	97.5	8.66	102.0	304.8	0 901
370	6.89 6.99	91.3	93.6	95.8	98.8	101.0
S	81.7	83.0	85.1	4.78	200.	93.0
1600	73.6	7.47	76.7	79.0	& .2	? ∂.
3500	9.79	65.7	67.7	70.1	73.9	20.92
0079	たた	55.7	57.9	60.5	7.19	h-99
12300	42.5	2.44	0.74	49.8	53.7	55.5

TABLE 2-XVI L-1011-1/R3.211-22B A-NOISE LEVEL PROPAGATION 3000 PEET, 77° F, 70% RELATIVE HUMIDITY

B		102.7	85.8 73.8	63.0 51. 11	8.		106.7		67.4
85		100.6	83.6 7.17	61.0 52.5	43.2		104.6 98.7	78.4 7.1.9:	65.4 55.2
75	cenustion	97.7	79.9 67.6	57.3 48.8	39.5	ttenuation	101.9 95.8	79.5	61.5
67.4	with Extra Ground Attenuation	95.5 88.5	77.6 65.2	52. 4.0 0.0	36.7	dBA, without Extra Ground Attenuation	99.66 93.6	77.2	59.0 48.5
9	LA, dBA, with	88.83.22 6.23.22	75.4 63.1	52.6	33.8	LA, dBA, without	91.3	8.03 1 41 -4	56.8 45.9
55		99.78 8.48	74.2 61.9	, e. c.	. o.		&. &. &.	いけらのから	55.7
N 1/6 %	Distance, Feet	200	6 00	2 O G	12800		200	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6400 6400 12800

TABLE 2-XVII L-1011-1/RB.211-22B A-NOISE LEVEL PROPAGATION 6000 FEET, 77 F, 70% REIATIVE HUMIDITY

R. 4 6 18	55	9	4.79	75	82	95
Distance, Feet		LA, dBA, with	with Extra Ground Attenuation	enuation		
200	27.12	92.7 85.7	98 88.0 0.0	97.2 2.5	100.1	102.2 95.5
200	73.7	75.0	11.1	4.62	83.1	85 55 50
1600	61.4	6 2.6	5.4.7	67.1 56.8	7.1.6 60 5	(3, 2, 2, 3
3200 6100	0, 23 0, 00	12.7 13.3	24.4 25.73	. 63 6. 6.	% % . o .	5.65 6.65
12800	31.5		36.2	39.0	42.7	E-44
		L, dBA, withou	Without Extra Ground Attenuation	tenuation		
Ç N	95.3		99.1	101.3	104.1	106.2
370	(8) (8)	8. 8.	43.5	<u>የ</u> ያ	& & & &	100.4
6	(B) (F)	اب 19	S &	07.1 20.0		<u>پرچ</u> د ه
88	5. g	 	6.79	20.00	74:1	36.5
6.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50	55.52 5.52	 	58.5	61.0	6.49	99
12820	ون س	45.5	48.1	50.7	54.7	56.5

SECTION III TAKEOFF PERFORMANCE

SECTION III

TAKEOFF PERFORMANCE

The determination of takeoff noise levels (both EPNdB and dBA) under the flight path for each engine and flap setting is described as follows. Figure 3-1 shows the physical relationships between brake release and some predetermined noise monitor. The particular example selected shows the use of the curves for variations of altitude, wind, and slope. This example is illustrated on Figure 3-2, 3-28, 3-30, 3-31, and 3-32. Entering Figure 3-2 with airport elevation and airport ambient temperature allows the user to determine the airport equivalent temperature. Entering Figure 3-28 with equivalent temperature, takeoff gross weight, airport elevation, wind, and runway slope allows the user to determine equivalent gross weight. Entering the climb profiles with equivalent weight will allow the user to determine the aircraft geometric height to about 3000 feet above the airport at any distance from brake release. Once height and distance from brake release are determined, then a runway slope correction is made and the height above the noise monitor obtained. A further airport elevation adjustment is made for noise, and then EPNdB or dBA for the given ambient temperature at 70% relative humidity can be read from the appropriate chart. Entering Figure 3-32 with the same distance and height above brake release as determined above, the instantaneous rate of climb and gradient can be determined. This figure may also be used for more accurate determination of airplane height above brake release for use with noise propagation data of Section 2.

The example described in Figure 3-1 is for a takeoff condition with a 360,000 lb. takeoff weight, RB.211-22E engines with ECS bleed on.

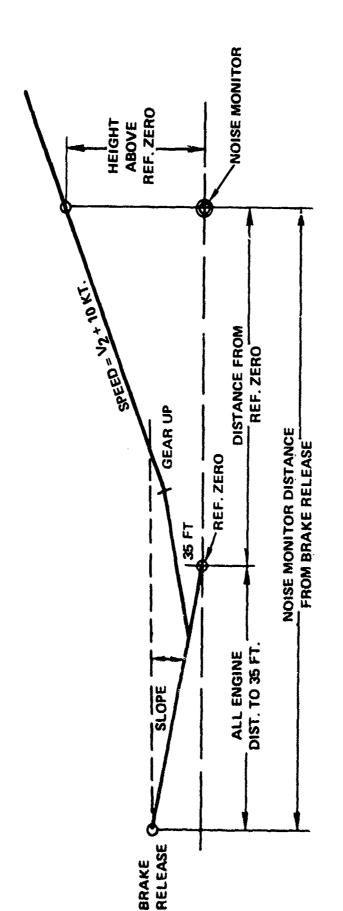
1.	Figure 3-2	
	Airport elevation	4000 ft.
	Airport ambient temperature	51.5° F
	Airport equivalent temperature	66° F

2.	Figure 3-28	
	Flap	10°
	RB.211-22B Engine	
	Takeoff gross weight	360,000 16.

	Airport equivalent temperature	66° f
	Airport elevation	4000 ft.
	Runway slope	-2% (down)
	All engine distance to 35 ft.	6850 ft.
3.	Figure 3-30	
	Takeoff gross weight	360,000 lb.
	Airport equivalent temperature	66° f
	Airport elevation	4000 ft.
	Reported wind	-10 kt.
	Equivalent weight	415,000 lb.
	Distance from brake release to noise monitor	
	(3.5 n mi)	21,280 ft.
	All engine distance to 35 ft.	6850 ft.
	Distance to noise monitor from reference zero	14,430 ft.
	Height of airplane above brake release point at	
	3.5 n mi from brake release	1620 ft.
	Height of airplane above noise monitor (reference	
	zero) at point 3.5 n mi from brake release	1760 ft.
	Airport ambient temperature at 4000 ft. elevation	51.6° F
	Effective perceived noise level at 3.5 n mi (Fig. 3-30)	95 EPNaB
	A-noise level (L_A) at 3.5 n mi (Fig. 3-31)	85 d BA
	EPR setting for takeoff	1.55
4.	Figure 3-32	
	Distance to noise monitor from reference zero	14,430 ft.
	Height of airplane above brake release	1620 ft.
	Instantaneous rate of climb for all engine climb	2100 ft./min.
	Zero wind climb gradient for all engine climb	12%
	Reported wind	-10 kt.

Wind corrected climb gradient for all engine climb

11%



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95 EPNdB

ALL ENGINE TAKEOFF PROFILE SCHEMATIC AND SAMPLE PROBLEM FOR TAKEOFF NOISE NOMOGRAPHS FIGURE 3-1

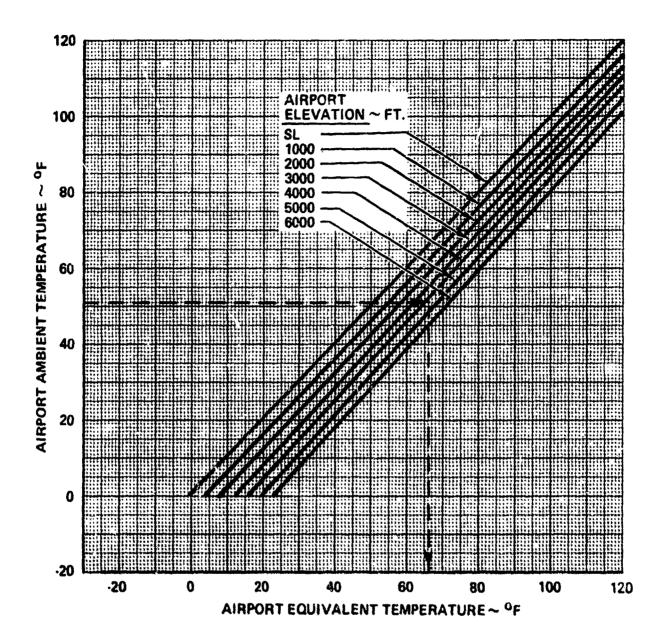


FIGURE 3-2 AIRPORT EQUIVALENT TEMPERATURE

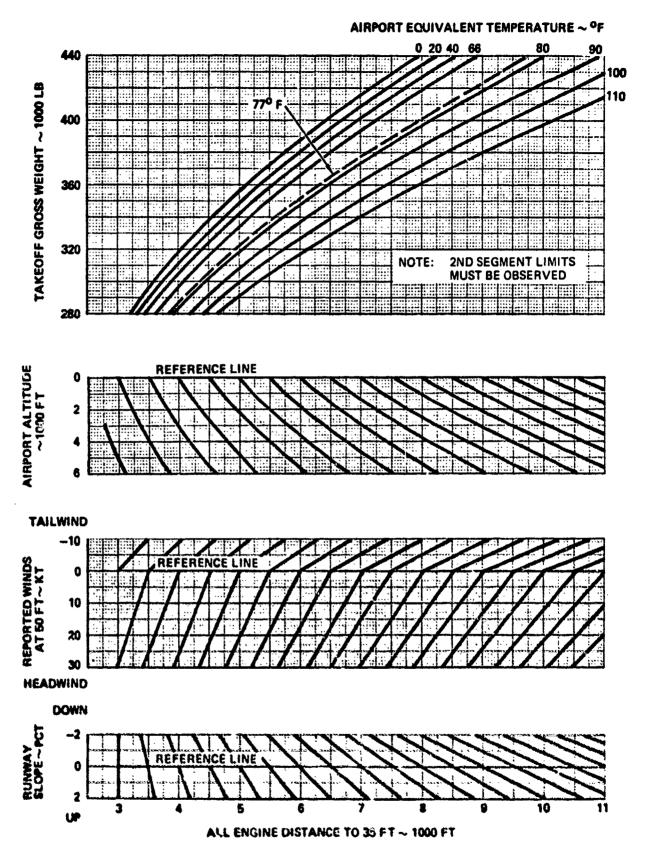


FIGURE 3-3 L-1011-1/RB.211-22C1 ALL ENGINE DISTANCE TO 35 FEET 40 FLAPS

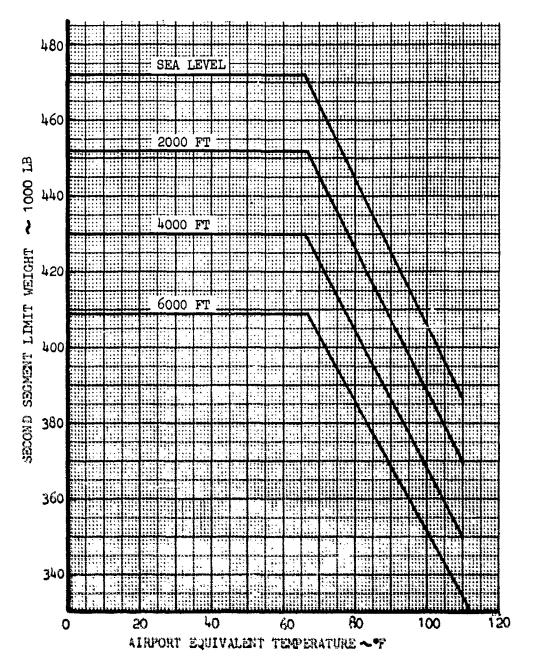


FIGURE 3-4 L-1011-1/RB.211-22C SECOND SEGMENT LINIT WEIGHTS 4° FLAPS

TAKEOFF GROSS WEIGHT ~ 1000 LB

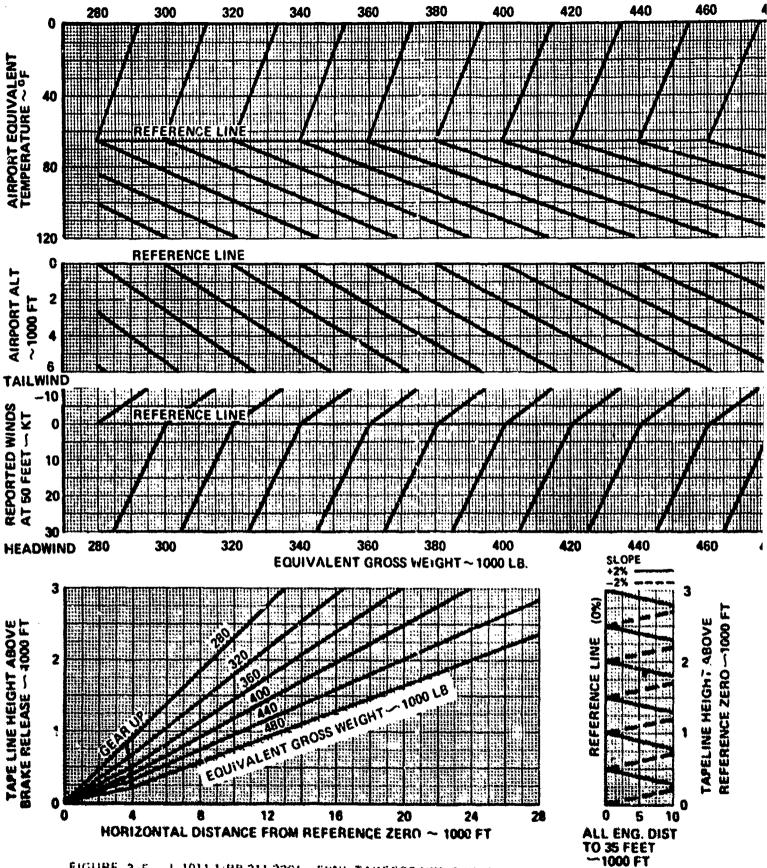
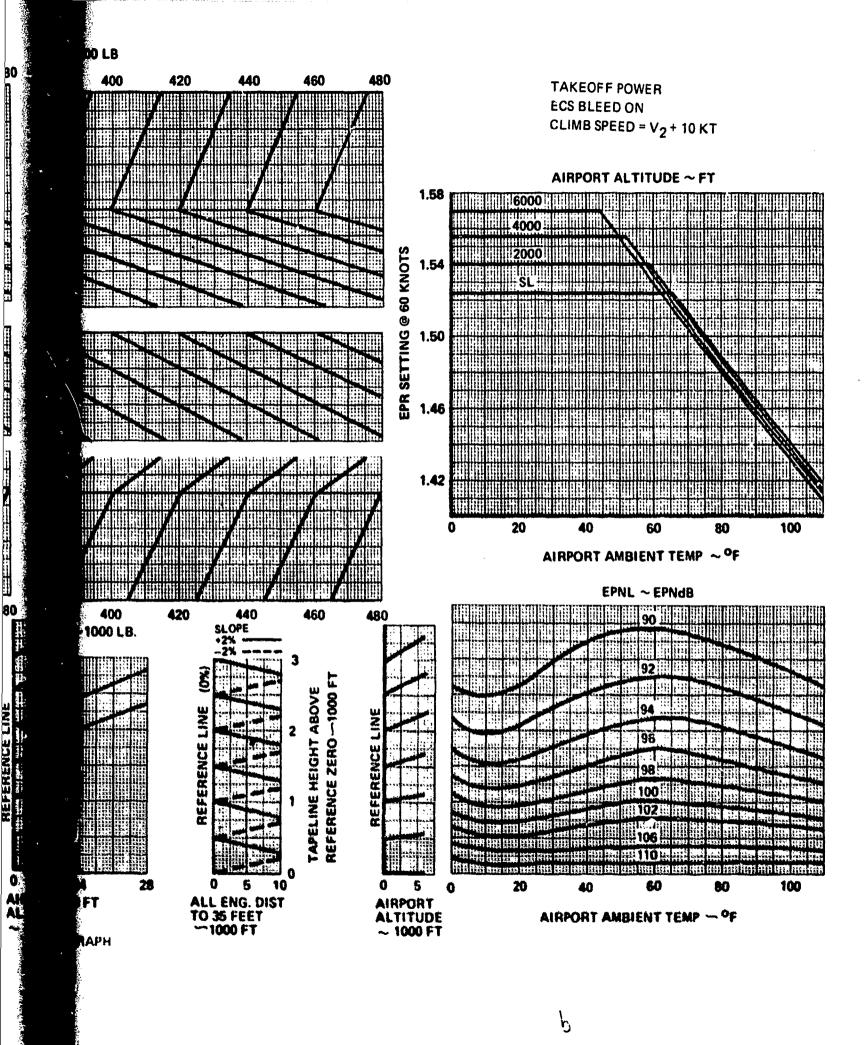
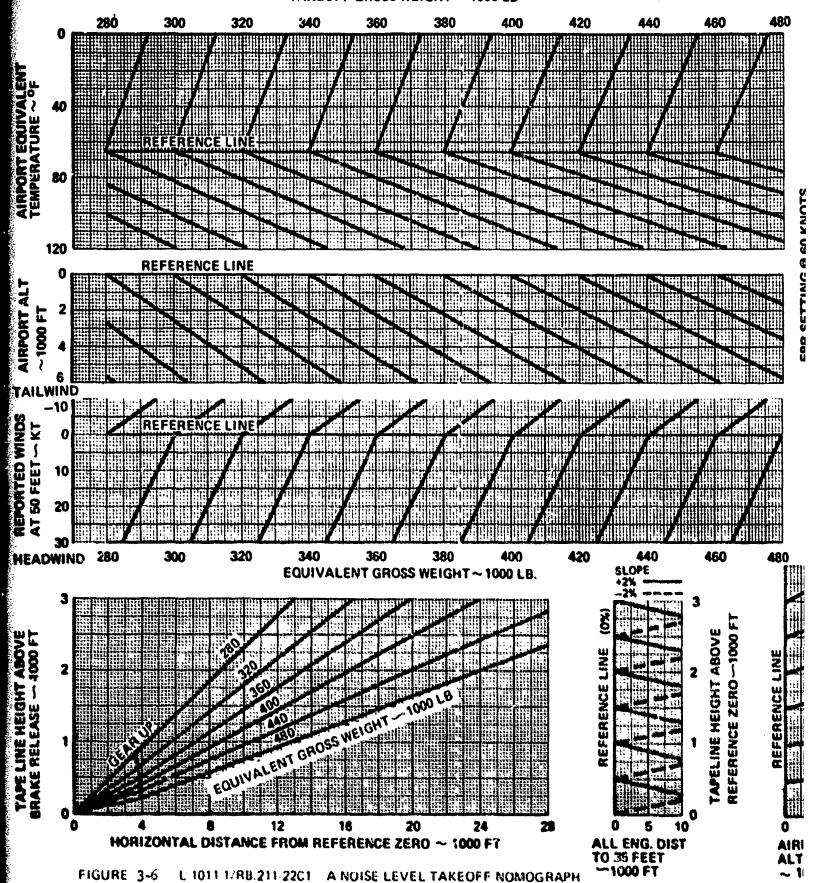


FIGURE 3-5 L 1011 1/RB.211 22C1 EPNL TAKEOFF NOMOGRAPH 40 FLAPS

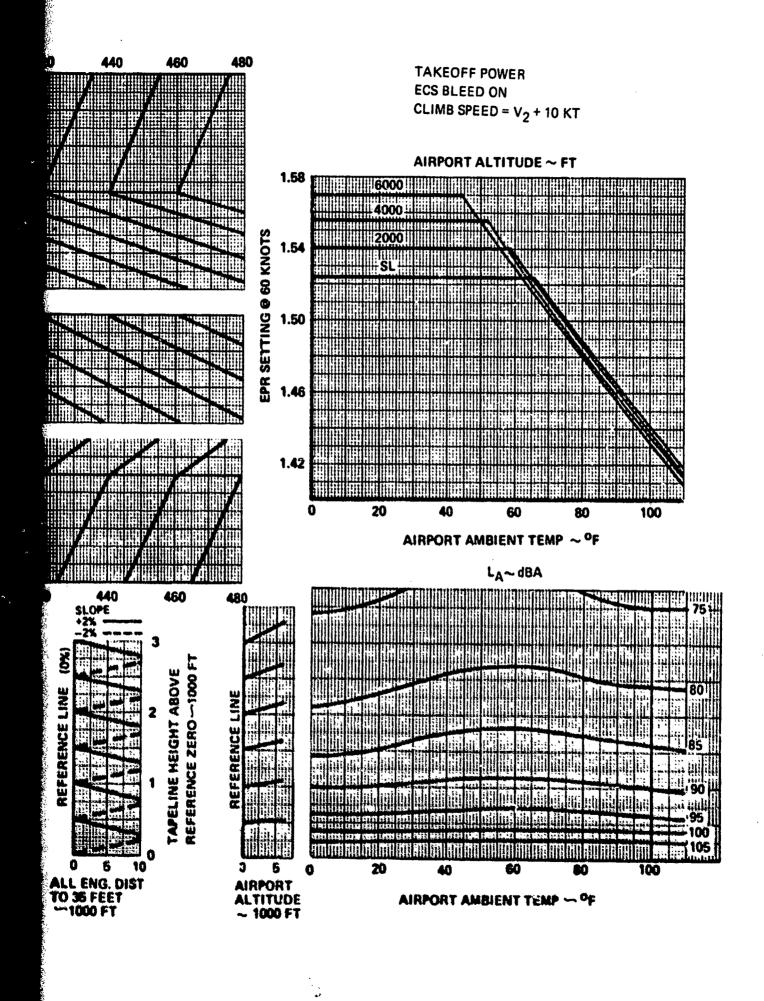


TAKEOFF GROSS WEIGHT ~ 1000 LB



40 FLAPS

·3-





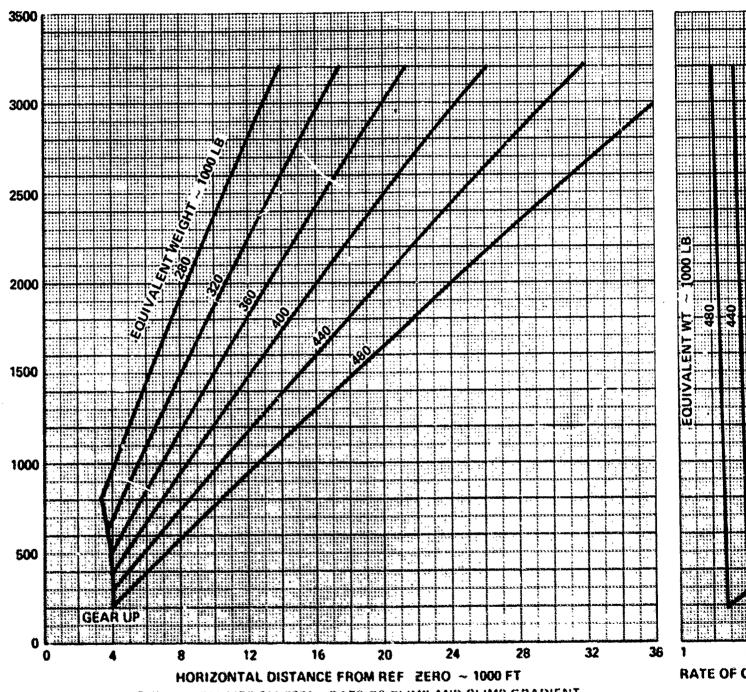
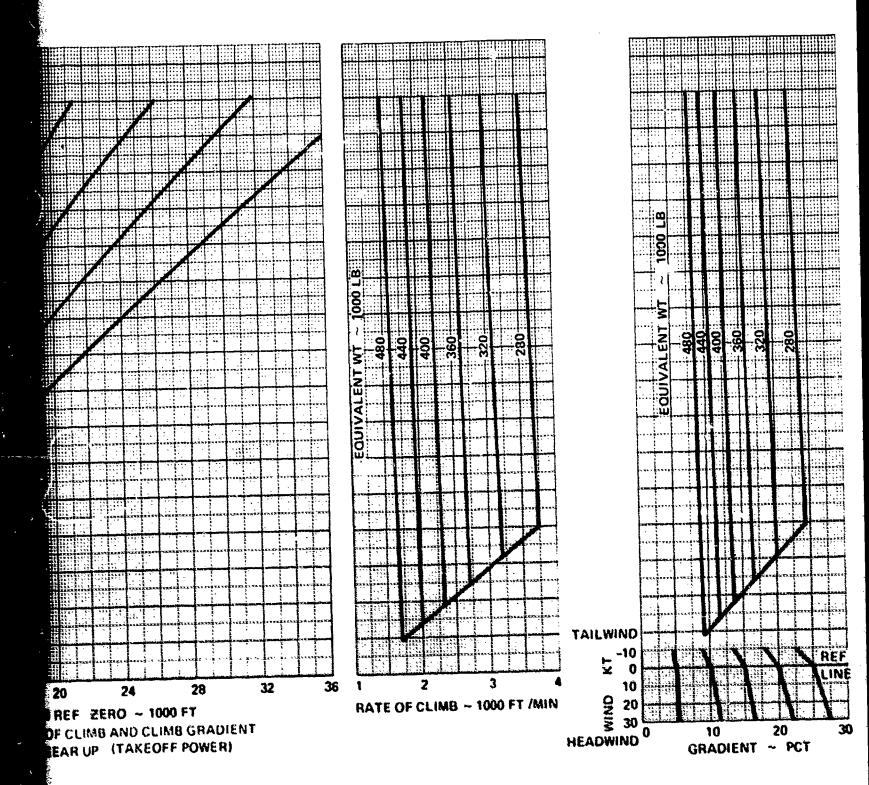


FIGURE 3-7 L-1011 1/RB.211 22C1 RATE OF CLIMB AND CLIMB GRADIENT ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER) 4º FLAPS



क्षा निर्माति का अत्यक्षित भाषा मान्या स्थापित स्थापित स्थापित स्थापित स्थापित स्थापित स्थापित स्थापित स्थापित

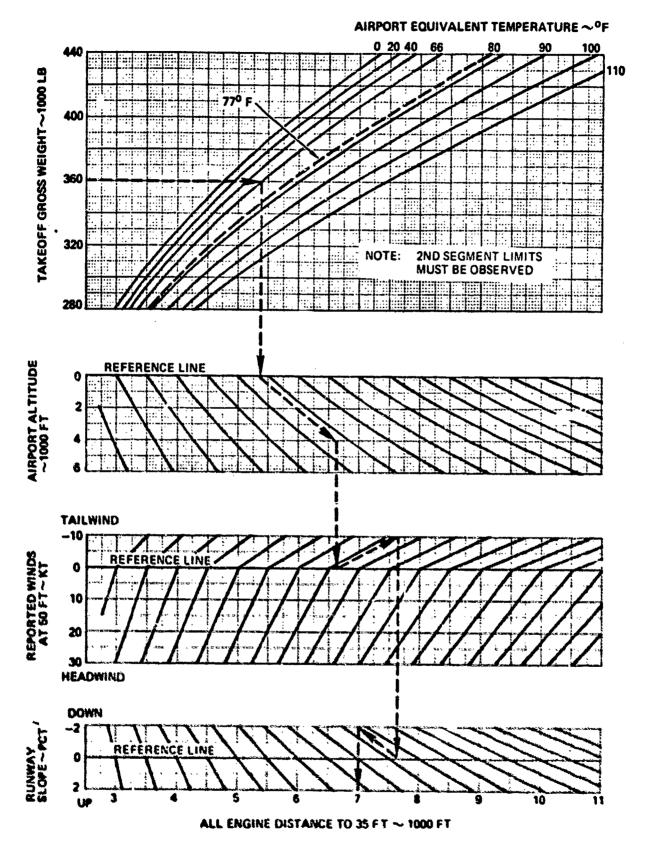


FIGURE 3-8 L 1011 WR8 211-22C1 ALL ENGINE DISTANCE TO 35 FEET 10° FLAPS

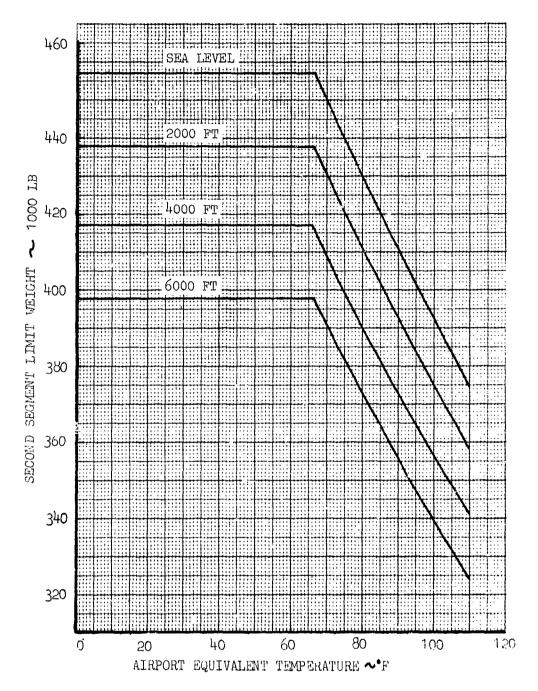


FIGURE 3-9 L-1011-1/RB.211-22C SECOND SEGMENT LIMIT WEIGHTS 100 FIAPS

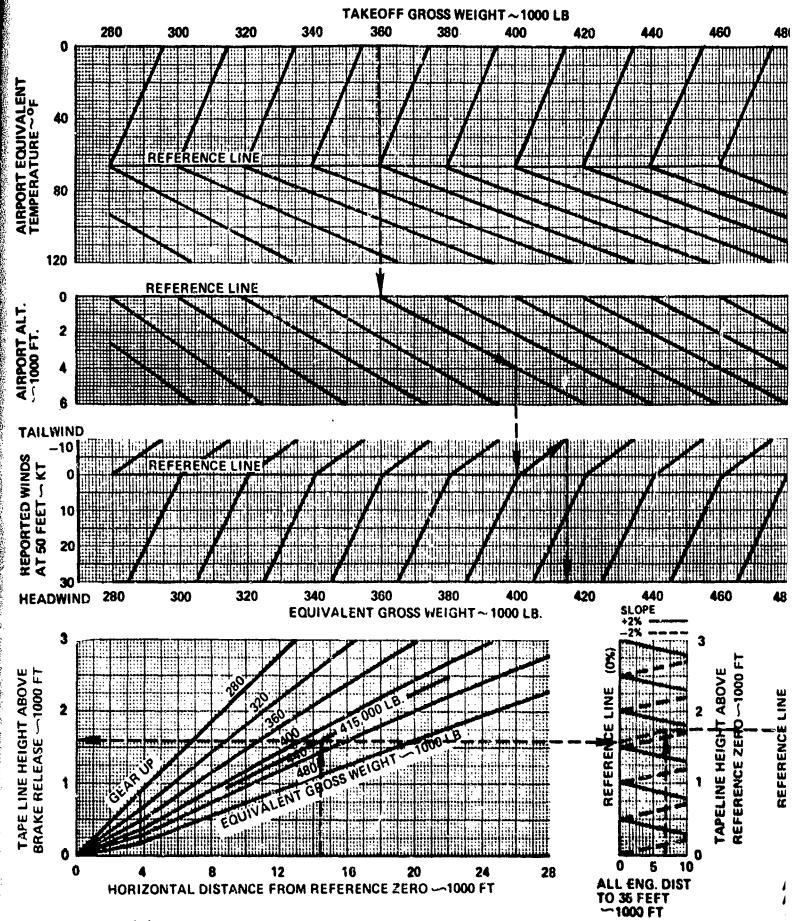


FIGURE 3-10 L 1011-1/RB.211-22C1 EPNL TAKEOFF NOMOGRAPH 100 FLAPS

S WEIGHT ~ 1000 LB

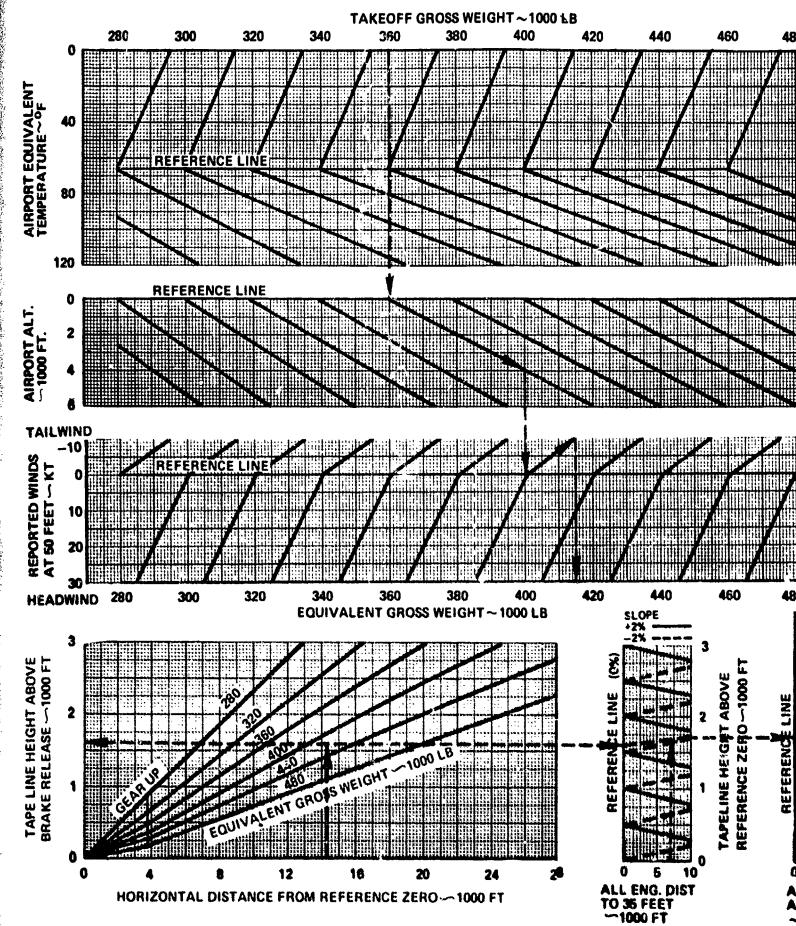
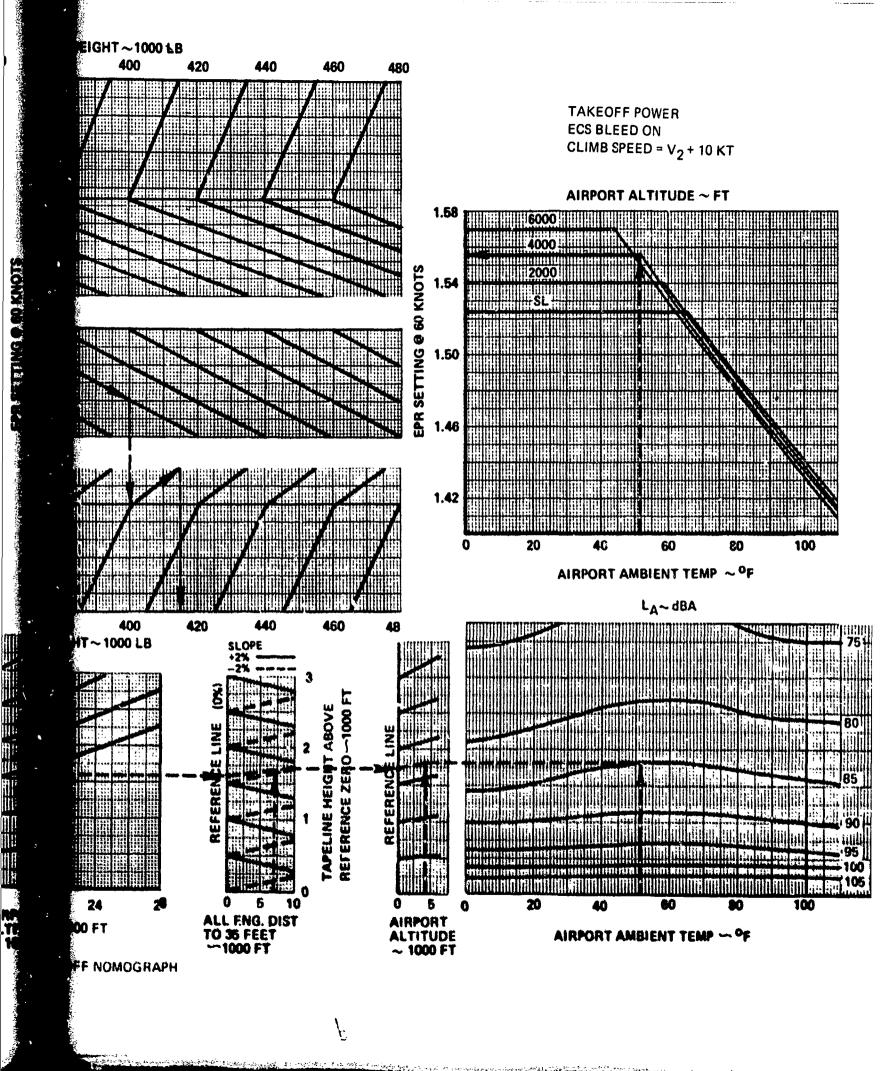


FIGURE 3-11 L 1011-1/RB.211-22C1 A-NOISE LEVEL TAKEOFF NOMOGRAPH 100 FLAPS



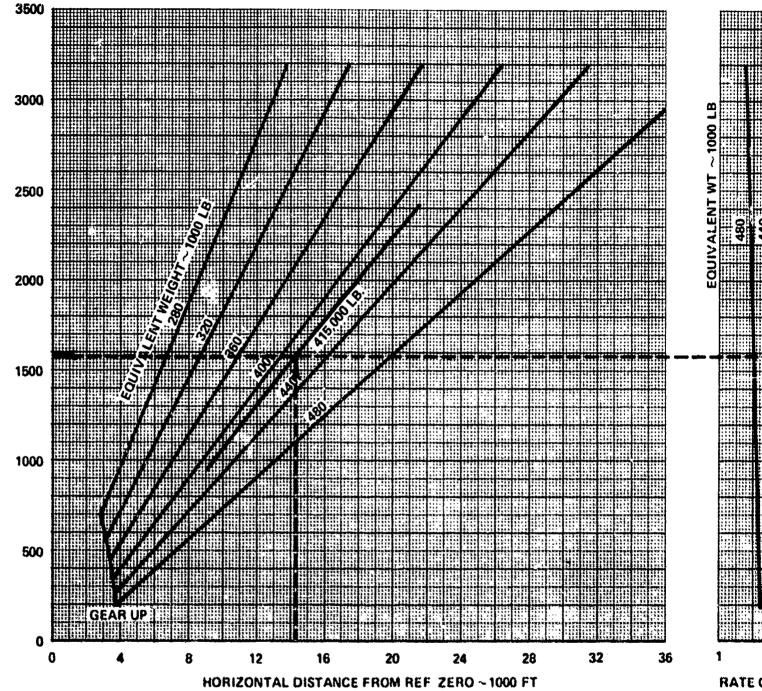
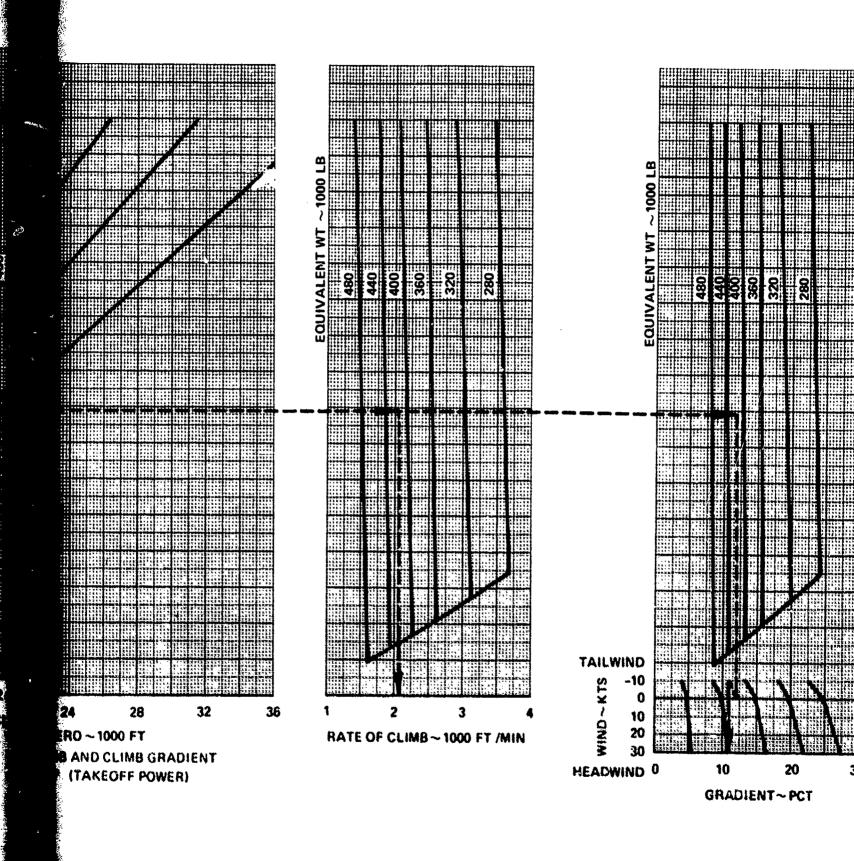


FIGURE 3-12 L-1011-1/RB.211-22C1 RATE OF CLIMB AND CLIMB GRADIENT ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER) 100 FLAPS

TAPELINE HEIGHT ABOVE BRAKE RELEASE



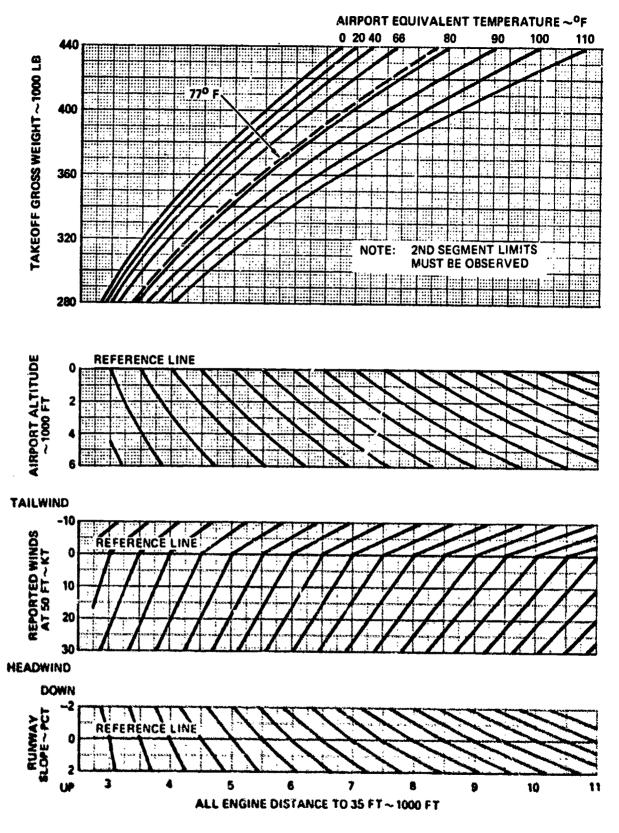
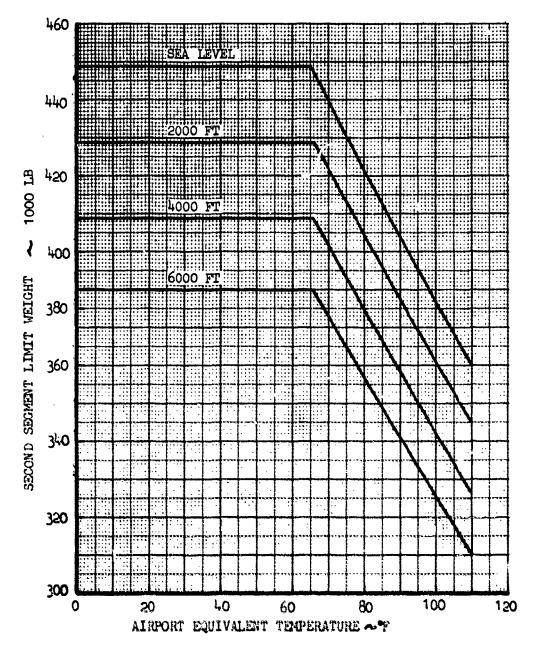
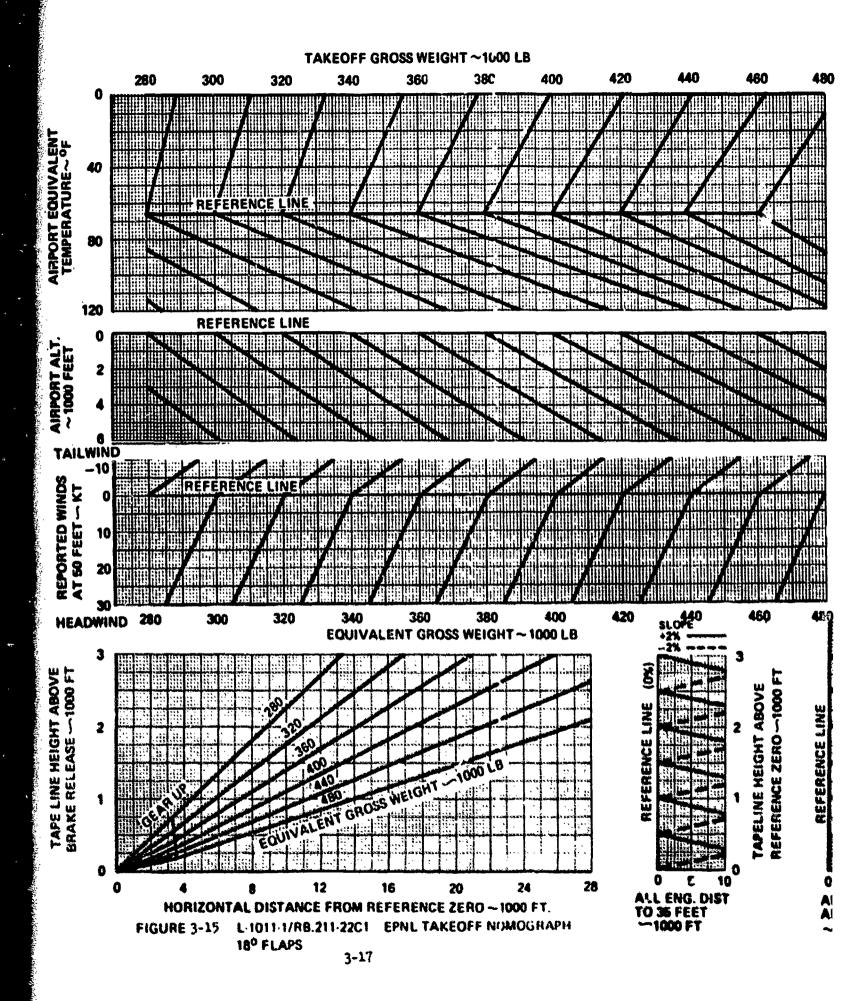


FIGURE 3-13 L-1011-1/RB.211-22C1 ALL ENGINE DISTANCE TO 35 FEET 180 FLAPS

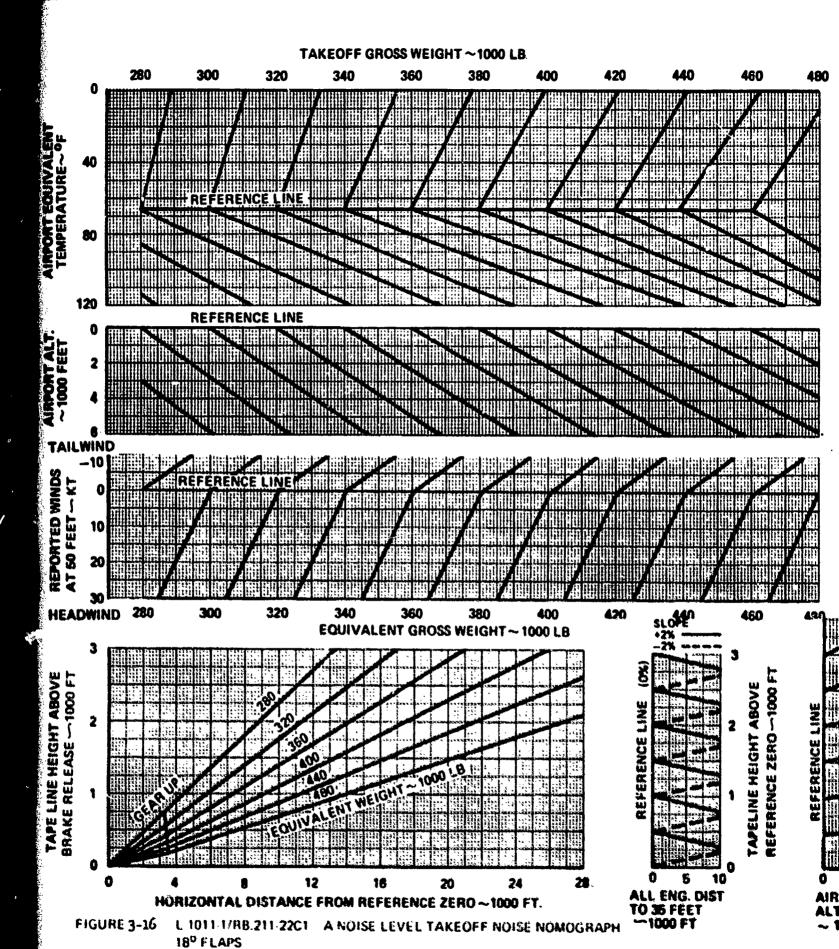
FIGURE 3-14 L-1011-1/RB.211-22C SECOND SEGMENT LINIT WEIGHTS 180 FLAPS

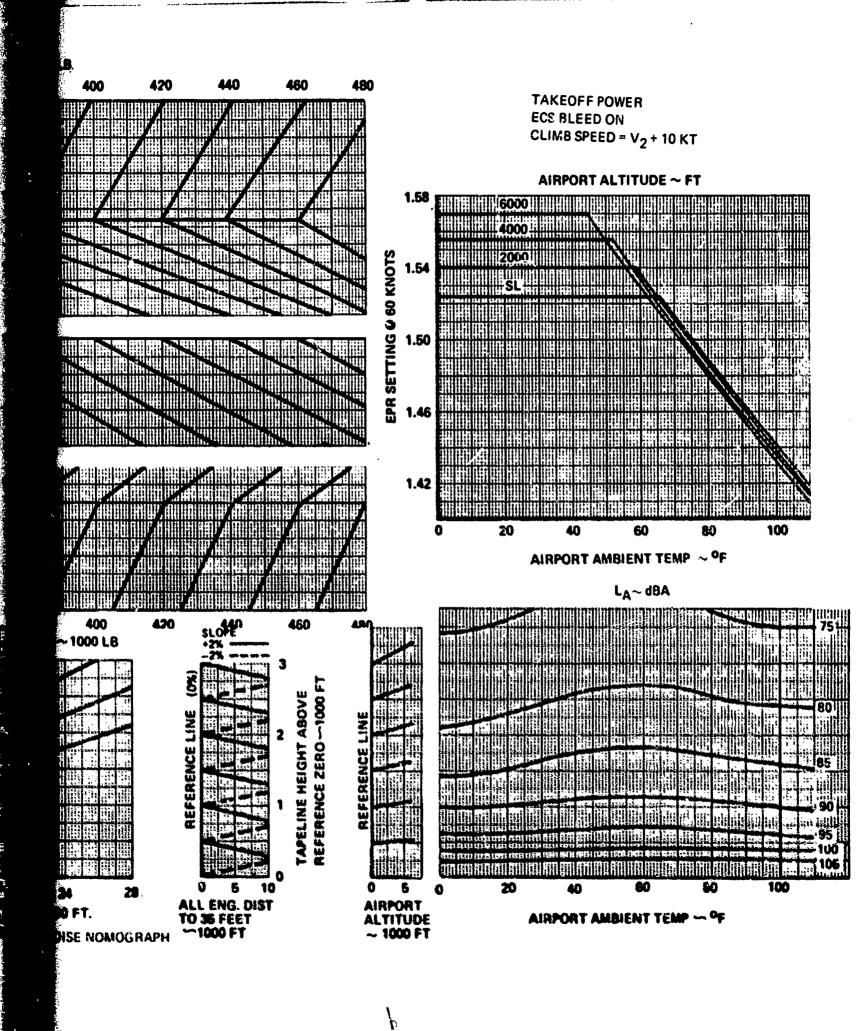


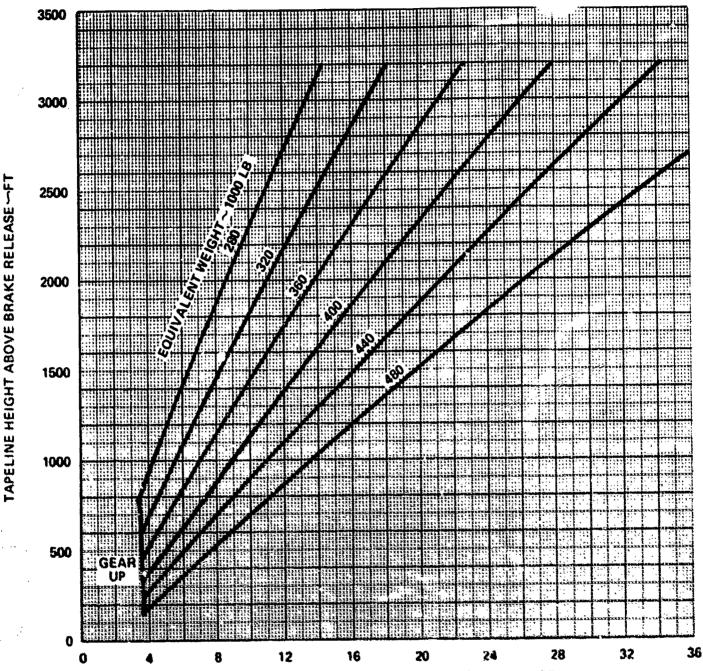


PREETTING . CO KNOTS

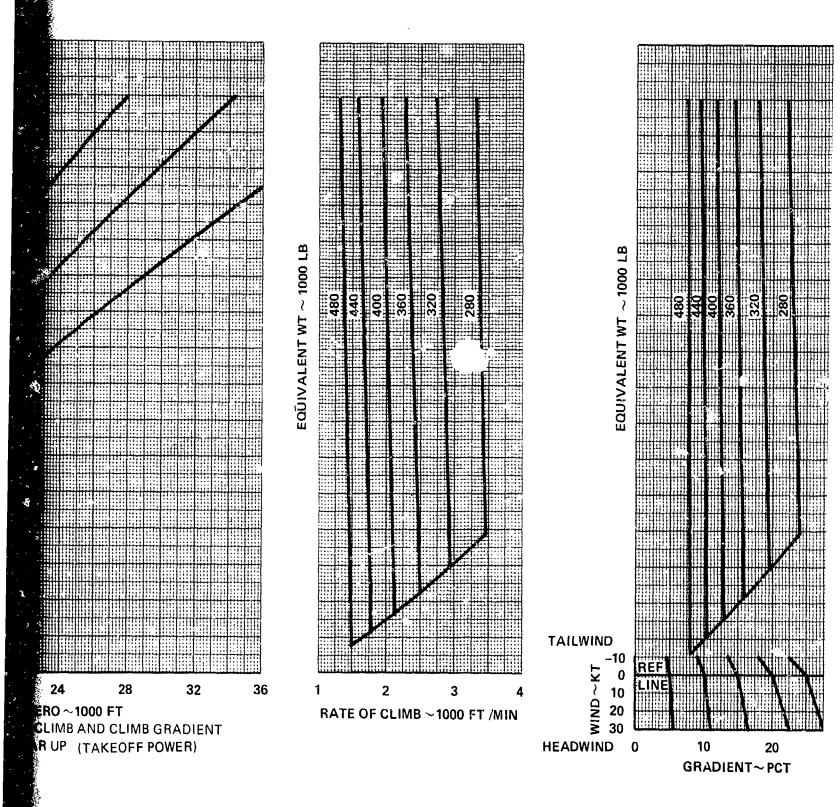
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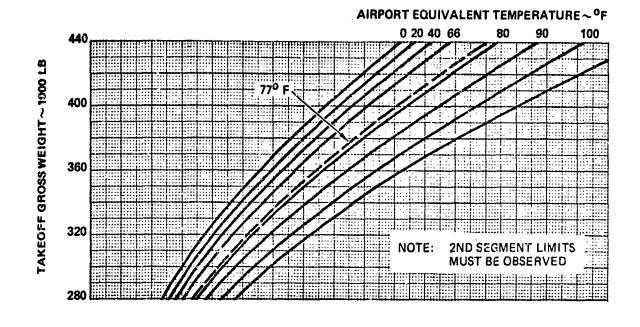


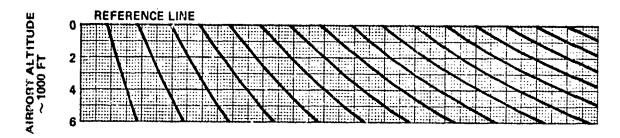


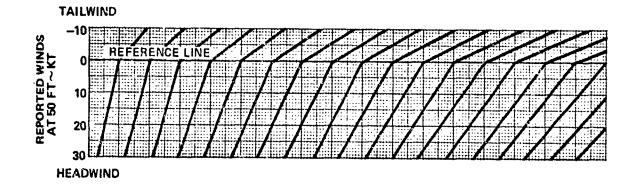


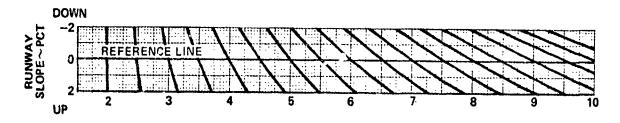
HORIZONTAL DISTANCE FROM REF ZERO ~1000 FT
FIGURE 3-17 L 1011-1/RB.211 22C1 RATE OF CLIMB AND CLIMB GRADIENT
ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER)
ECS BLEED ON 18° PLAPS











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FIGURE 3-18 L-1011-1/RB.211-22C1 ALL ENGINE DISTANCE TO 35 FEET 22° FLAPS

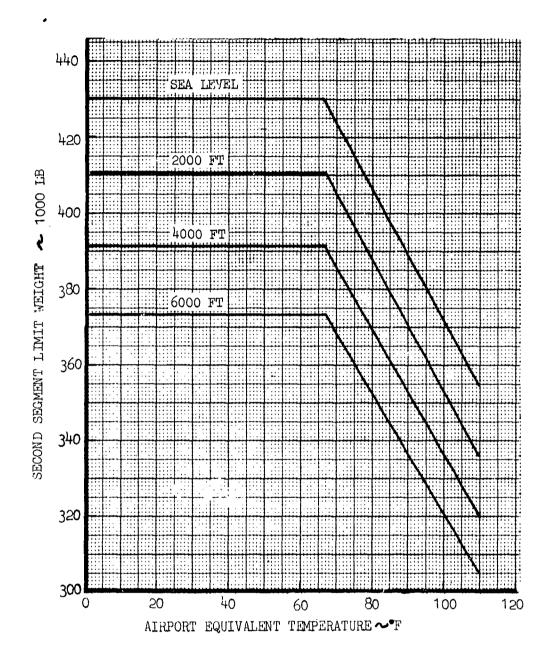
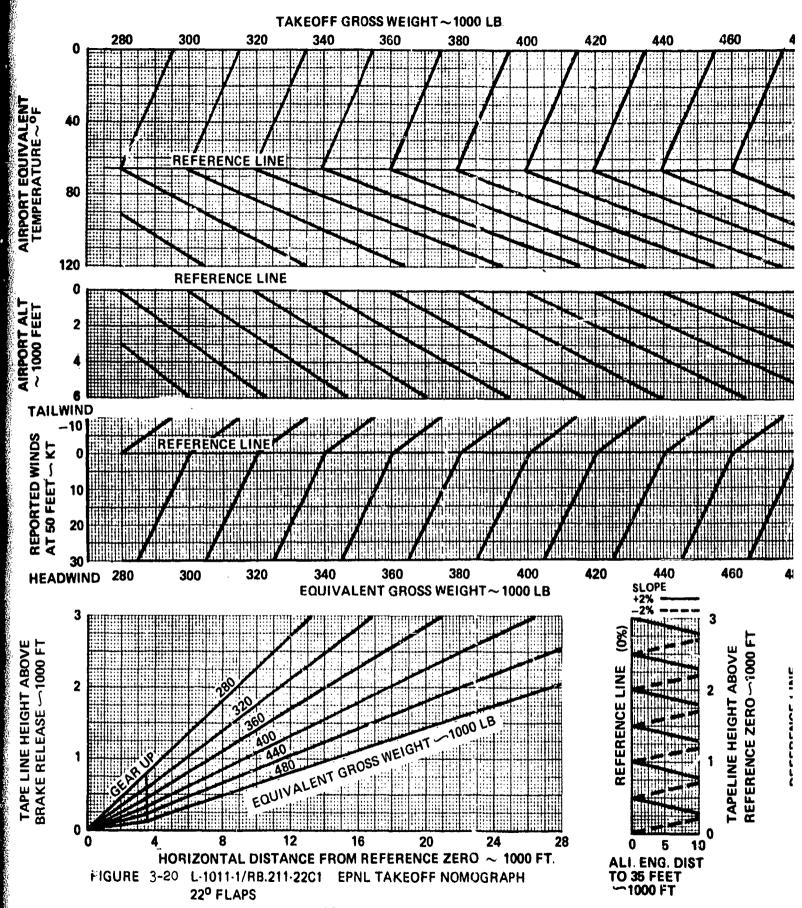
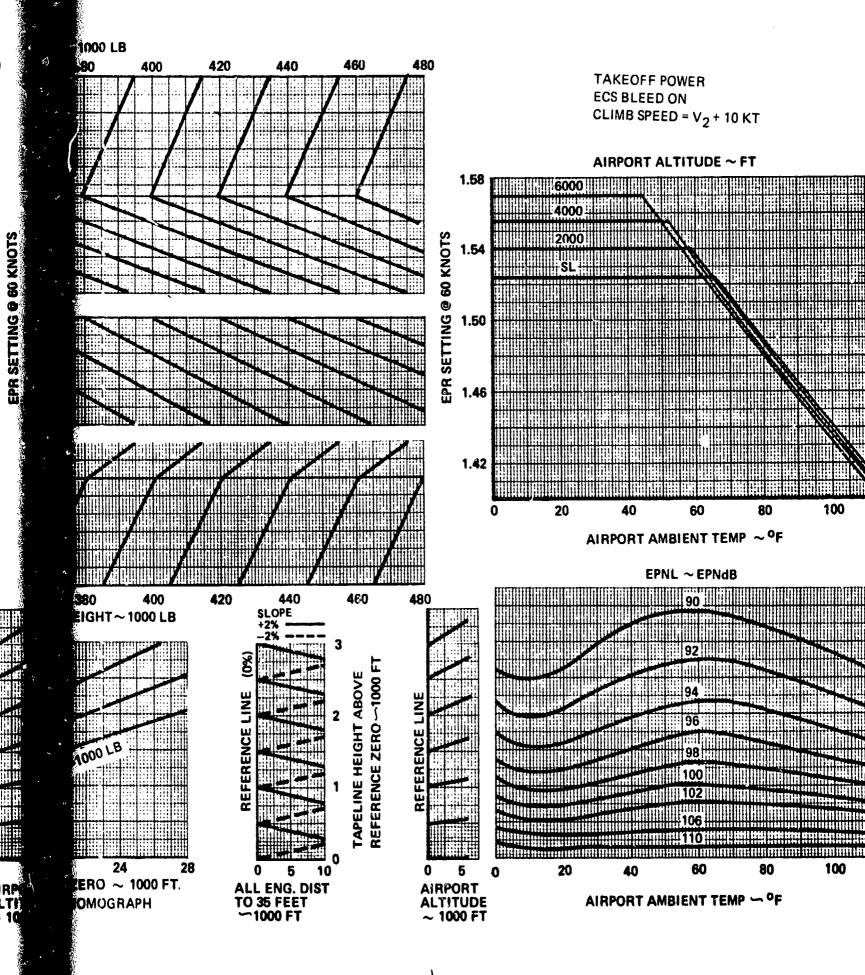


FIGURE 3-19 L-1011-1/RB.211-22C SECOND SEGMENT LIMIT WEIGHTS 22° FLAPS





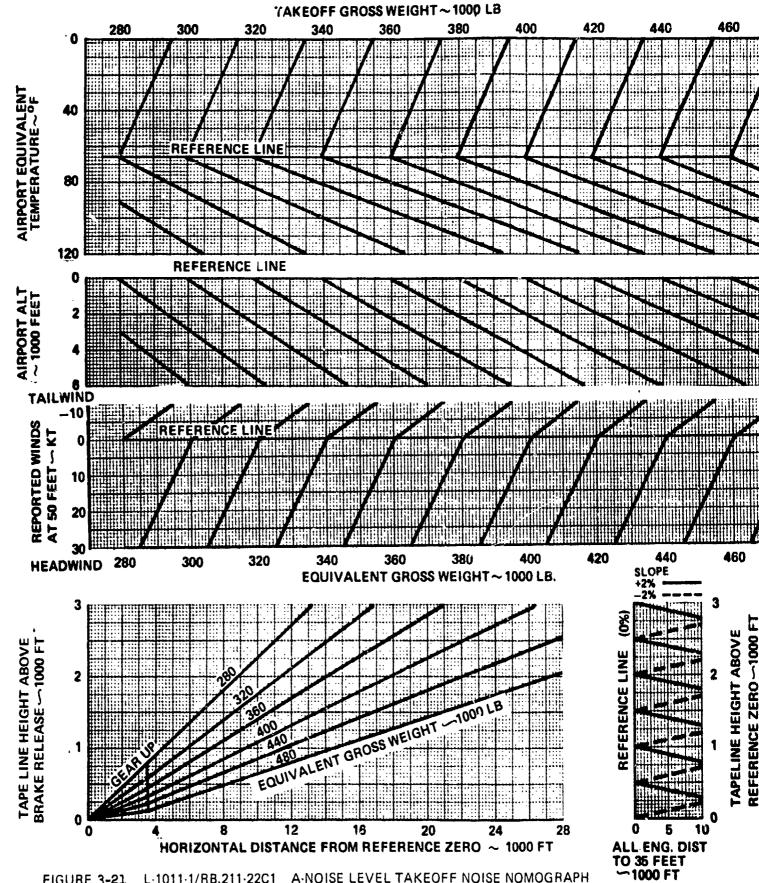
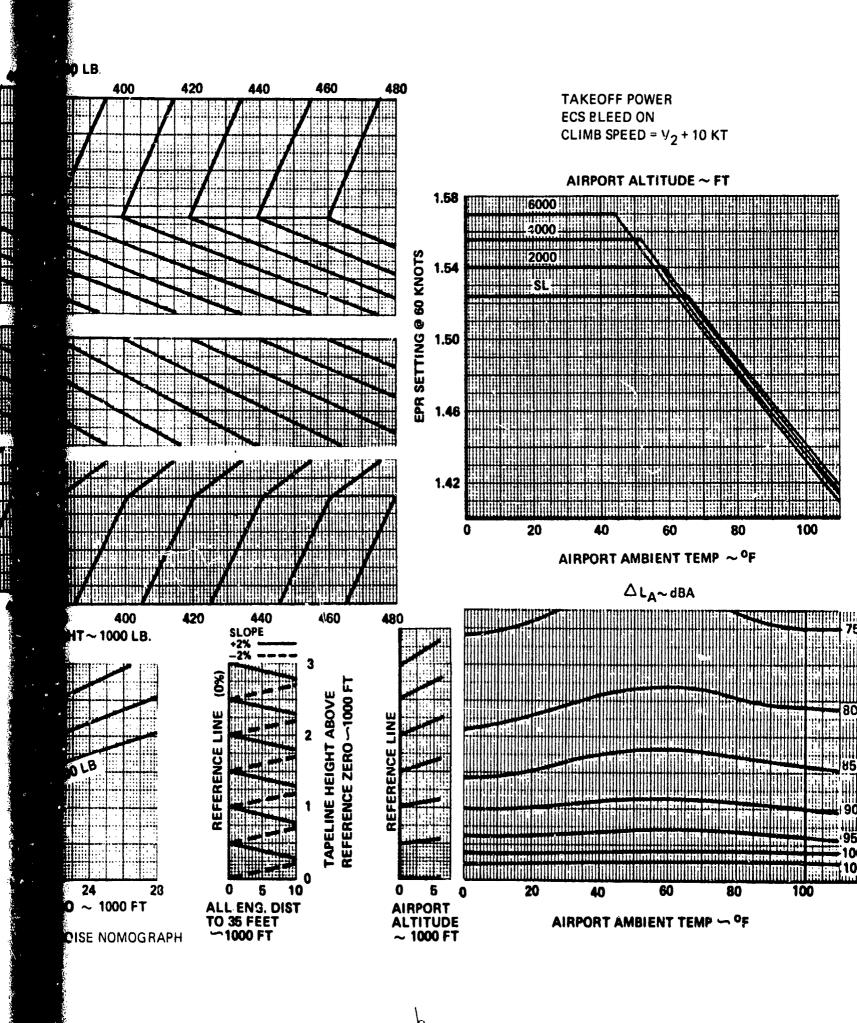


FIGURE 3-21 L-1011-1/RB.211-22C1 A-NOISE LEVEL TAKEOFF NOISE NOMOGRAPH 22° FLAPS



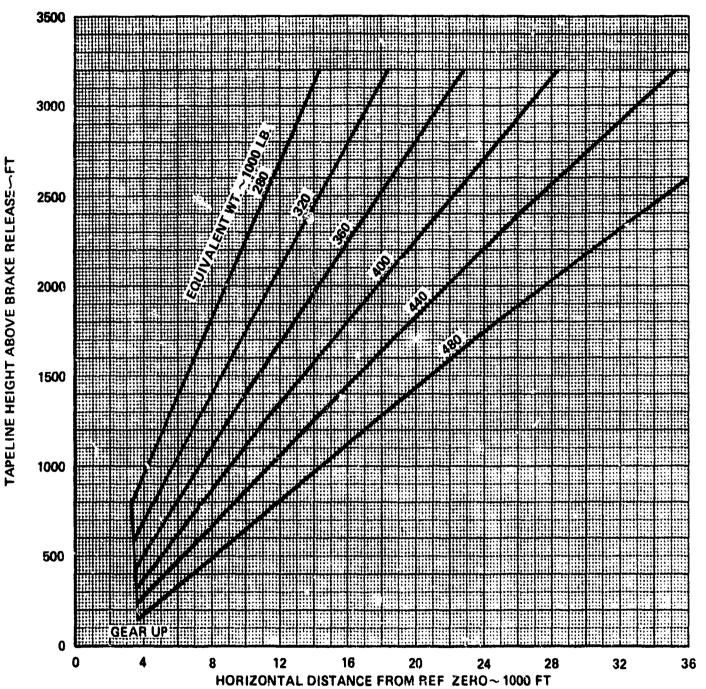
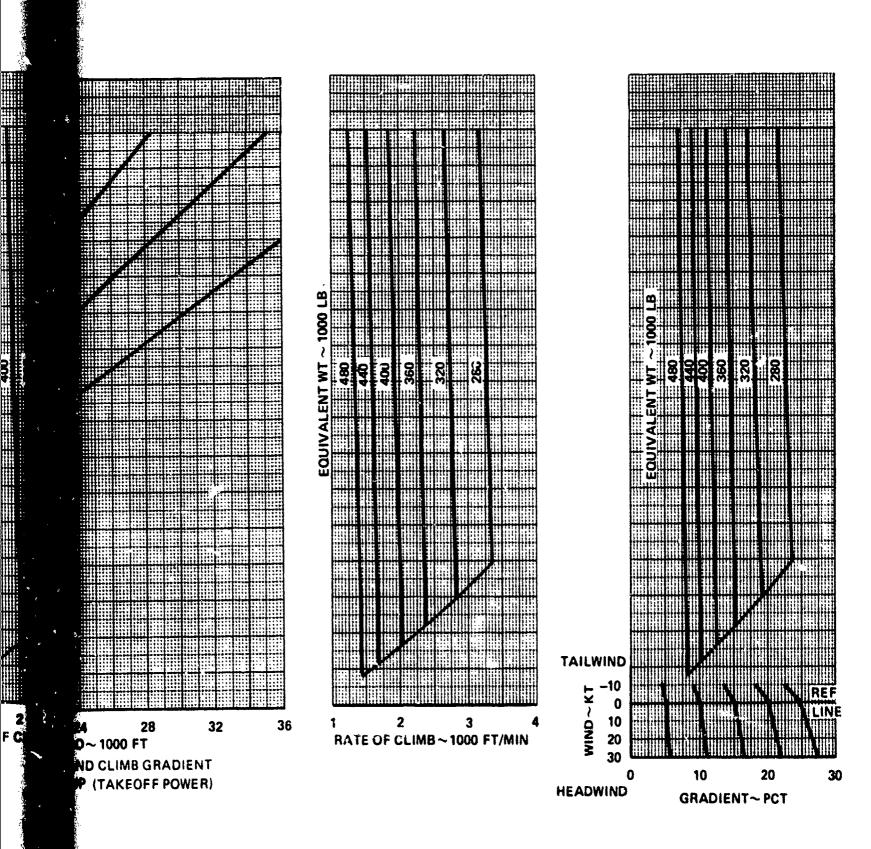
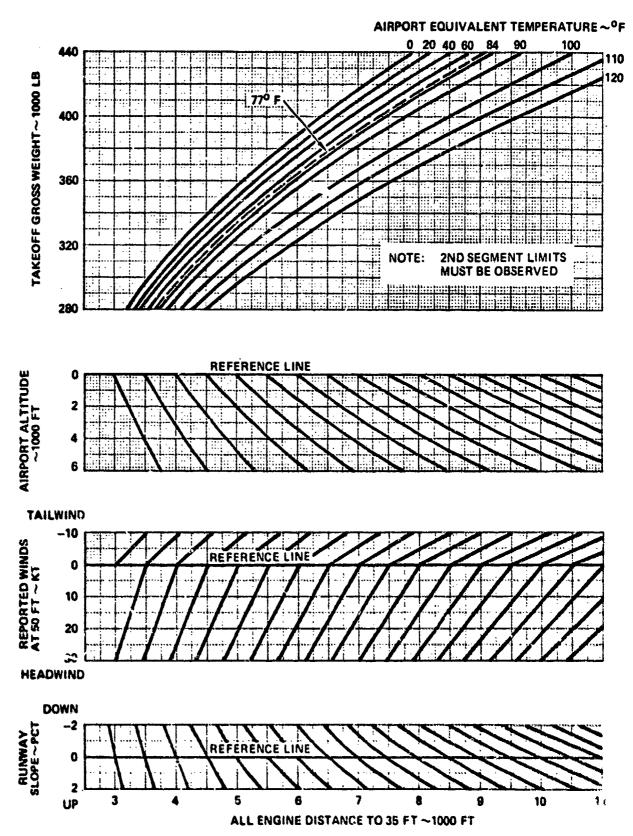


FIGURE 3-22 L-1011-1/RB.211-22C1 RATE OF CLIMB AND CLIMB GRADIENT FOR ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER) ECS BLEED ON 22° FLAPS

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FIGURE 3-23 L-1011-1/RB.211-228 ALL ENGINE DISTANCE TO 35 FEET 4º FLAPS

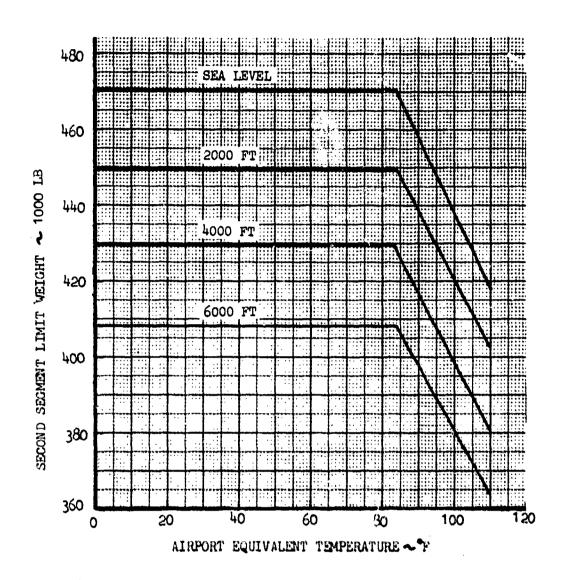
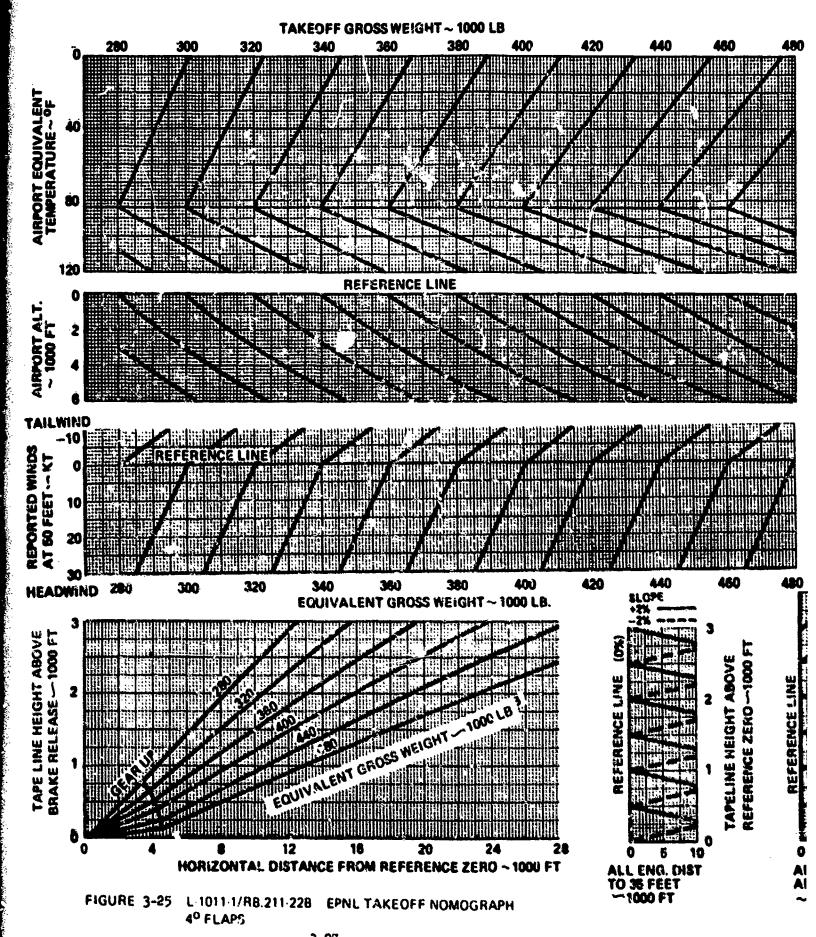
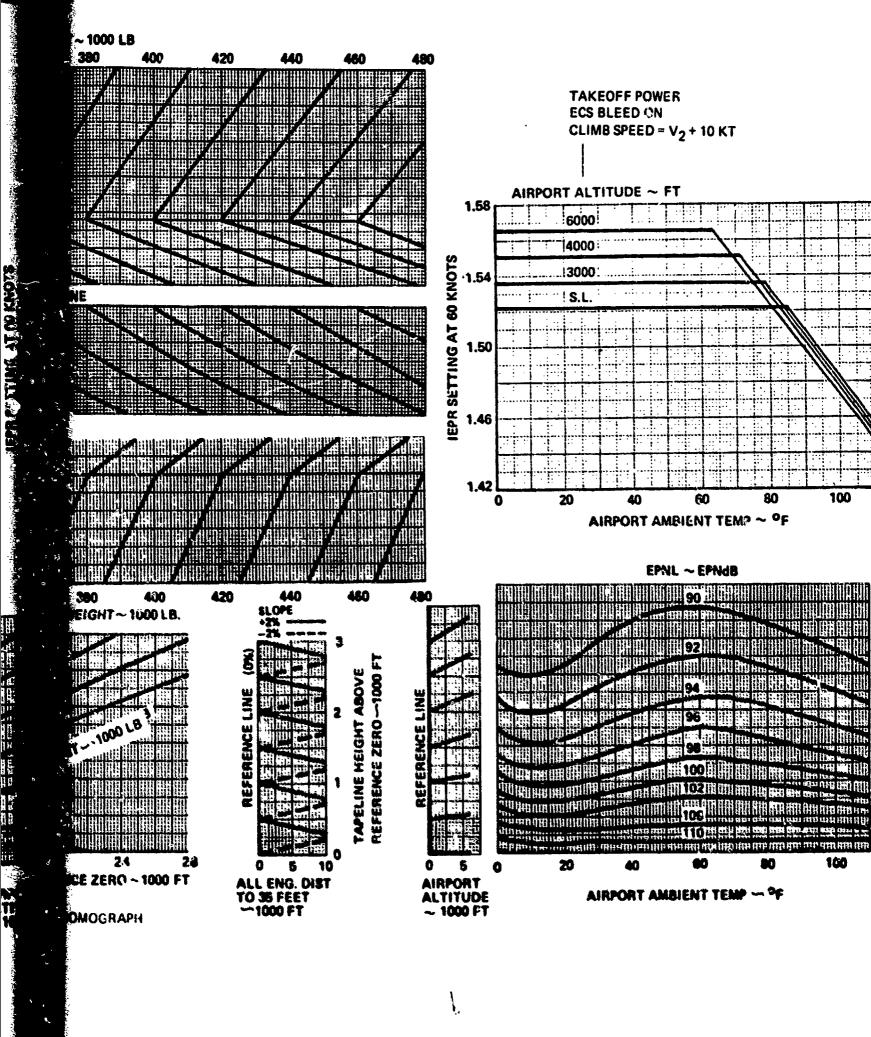


FIGURE 3-24 L-1011-1 'RB.211-22B SECOND SEGMENT LIMIT WEIGHTS 40 FLAPS





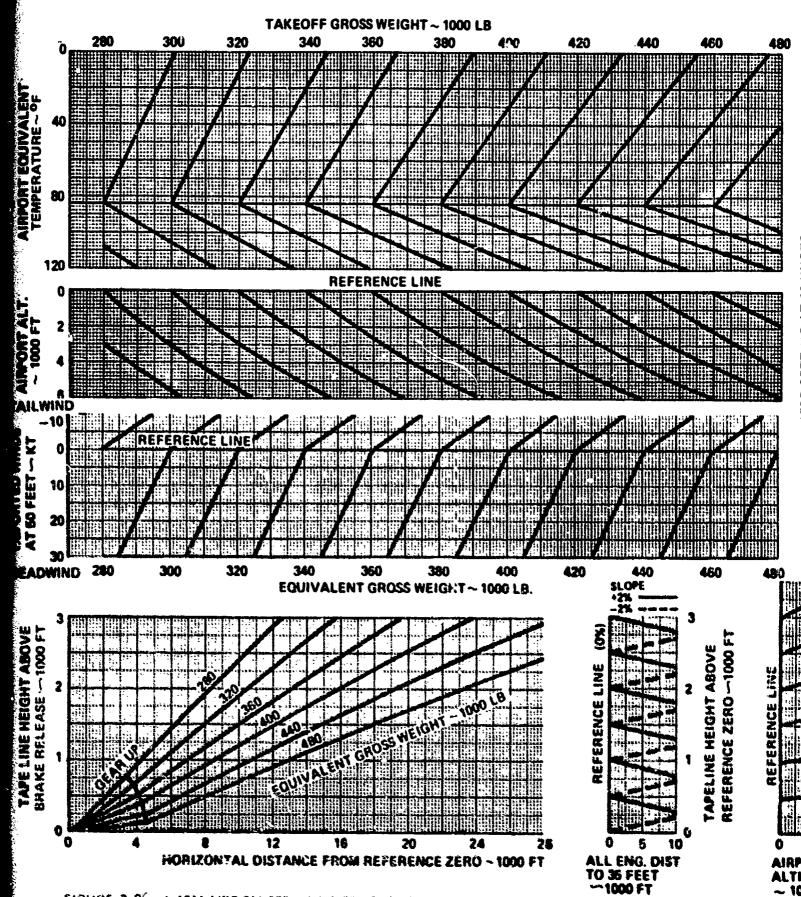
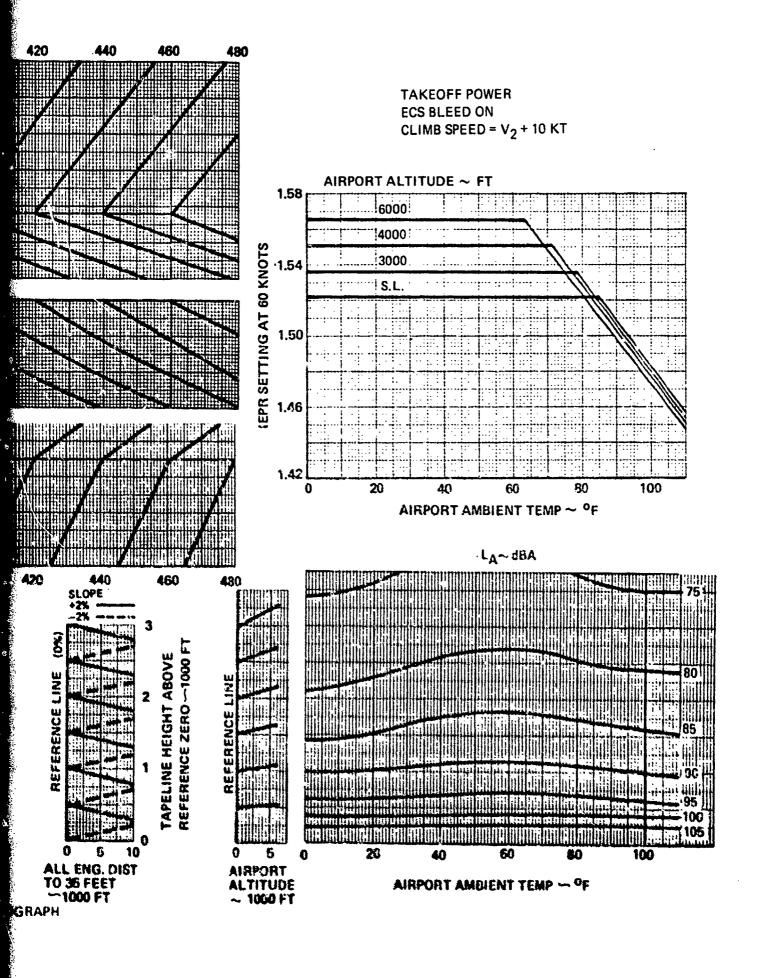
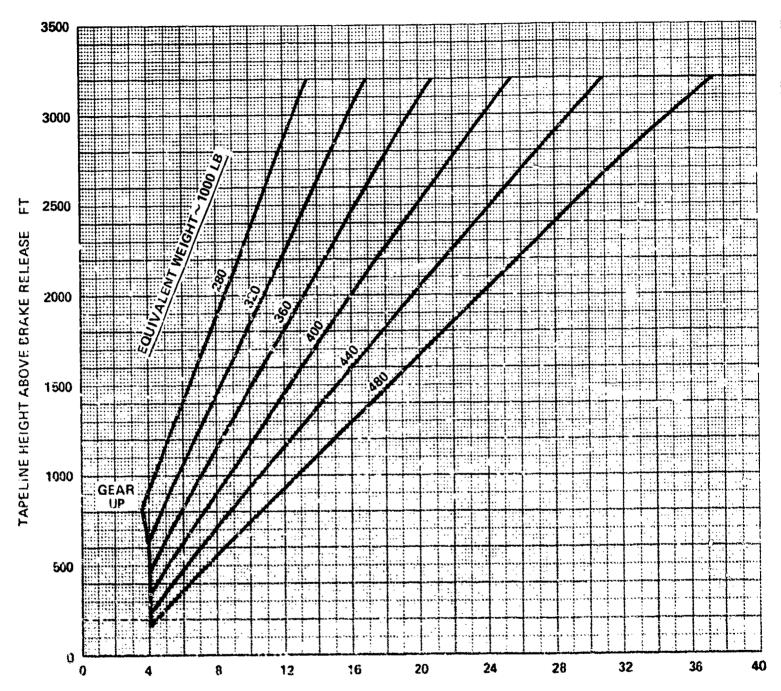
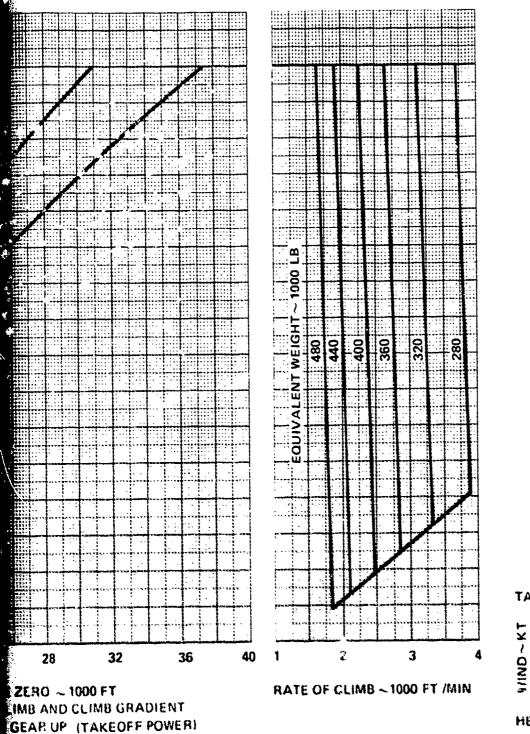


FIGURE 3-26 L 1011 1/RB.211-228 A NOISE LEVEL TAKEOFF NOISE NOMOGRAPH 4º FLAPS

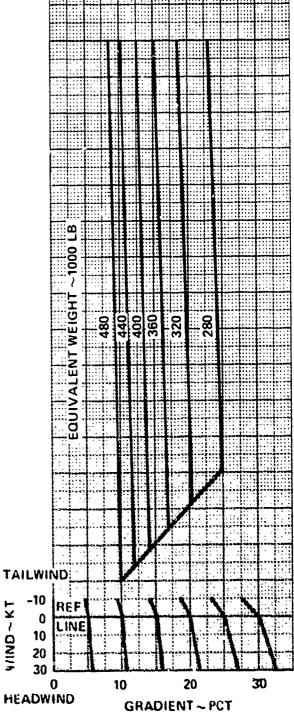


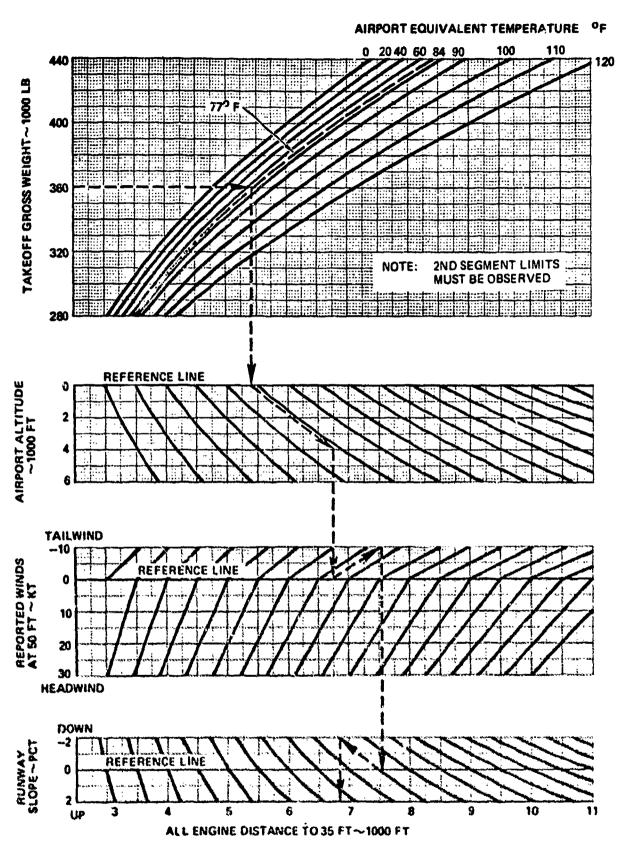


HORIZONTAL DISTANCE FROM REFERENCE ZERO ~ 1000 FT
FIGURE 3-27 L 1011 1/RB.211 22B RATE OF CLIMB AND CLIMB GRADIENT
FOR ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER)
ECS BLEED ON LO FLAPS



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FIGURE 3-28 L 1011-17RB-211-22B ALL ENGINE DISTANCE TO 35 FEET 10° FLAPS

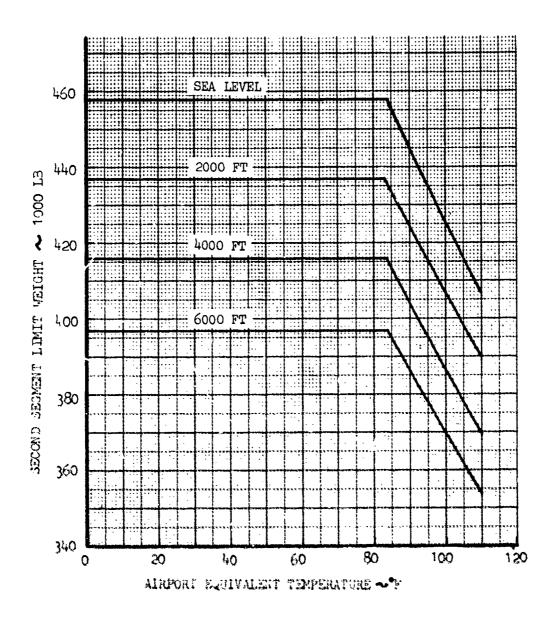
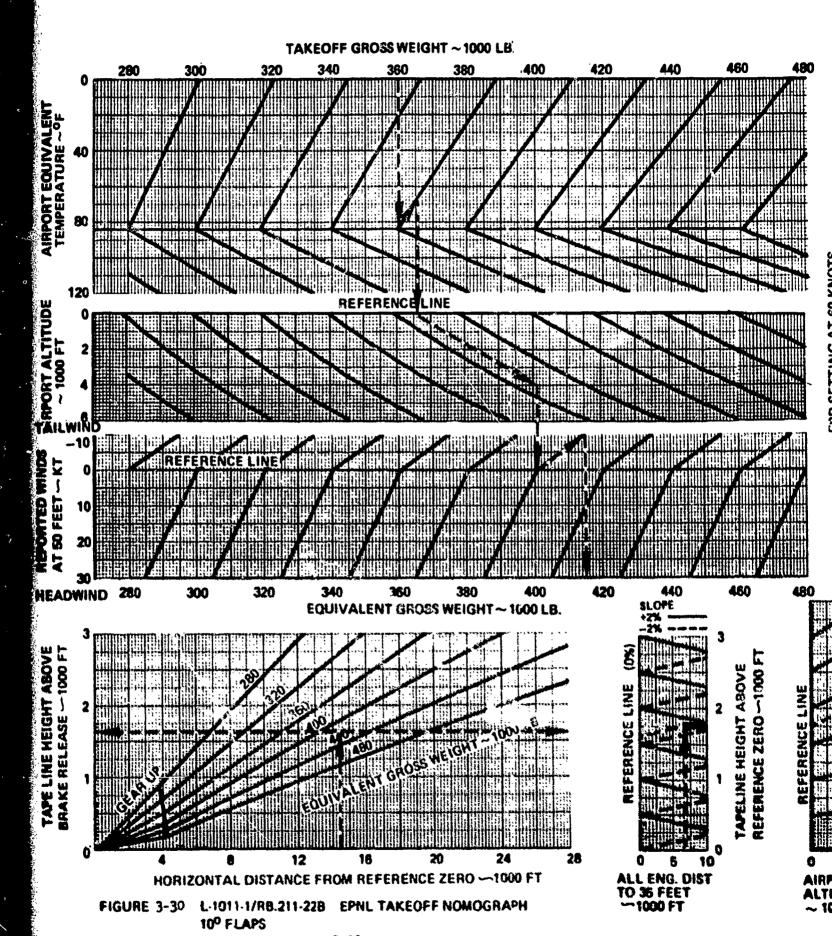
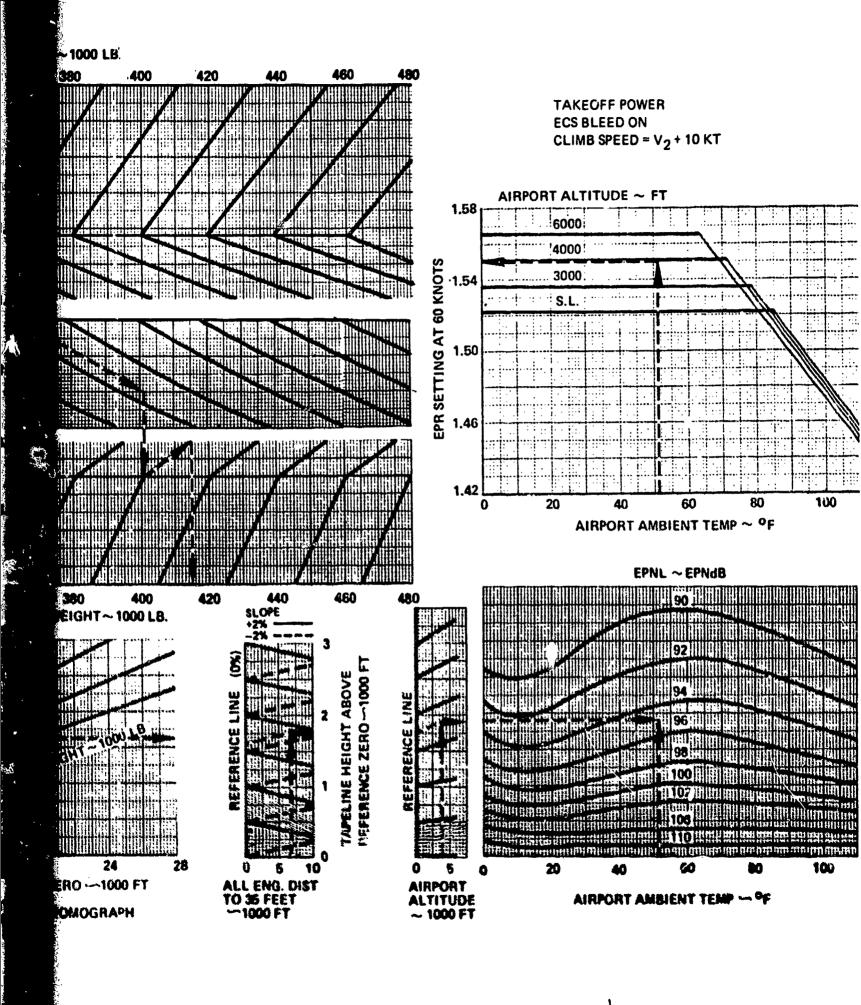


FIGURE 3-29 L-1011-1/RB.211-22B SECOND SECHENT LIMIT WEIGHTS 10° FLAPS





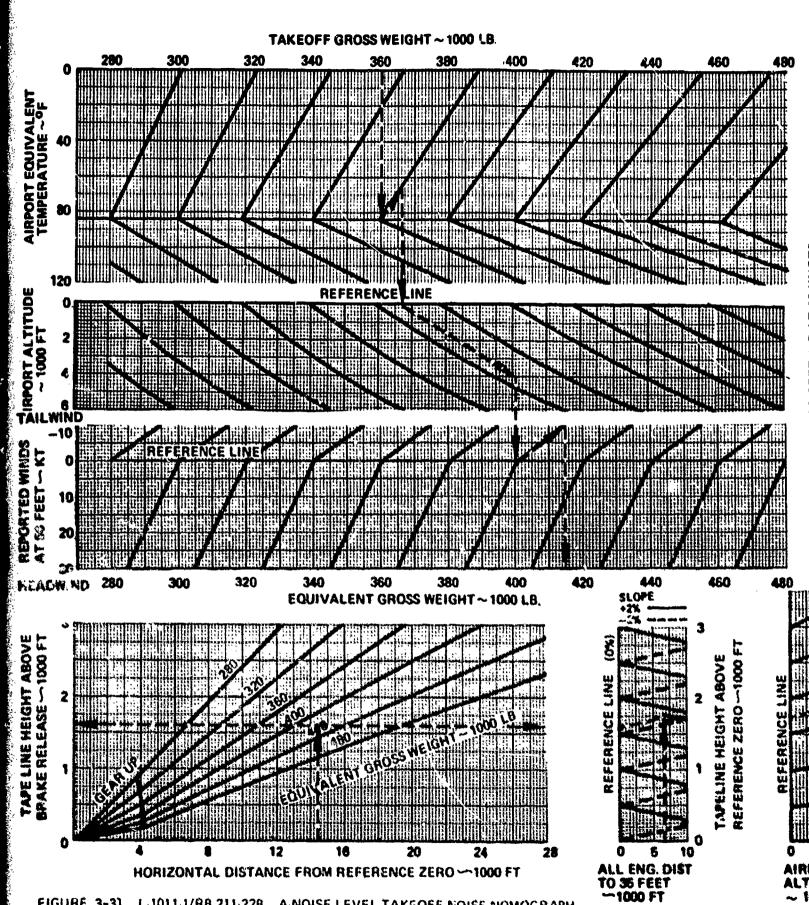
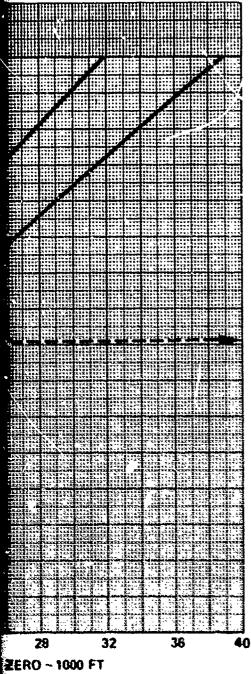


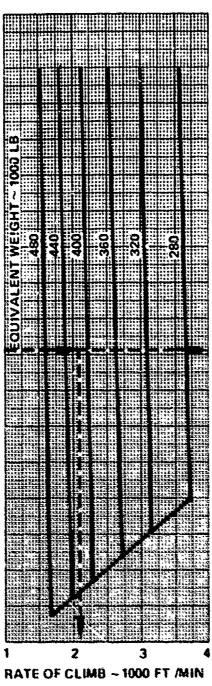
FIGURE 3-31 L-1011-1/RB.211-228 A-NOISE LEVEL TAKEOFF NOISE NOMOGRAPH 100 FLAPS

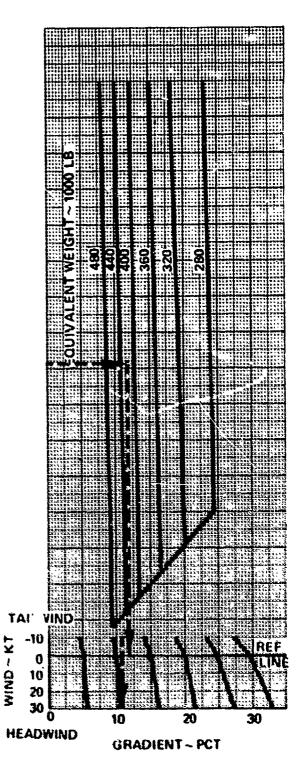
a

00 LB. 400 420 460 480 TAKEOFF POWER **ECS BLEED ON** CLIMB SPEED = V2 + 10 KT AIRPORT ALTITUDE ~ FT 1.58 6000 4000 **IEPR SETTING AT 60 KNOTS** 3000: ·1.54 S.L 1.50 1.46 1.42 100 20 AIRPORT AMBIENT TEMP ~ OF LA~dBA 440 SLOPE 400 420 460 480 HT~1000 LB. reference zero —1000 ft TAPELINE HEIGHT ABOVE REFERENCE LINE REFERENCE LINE AIRPORT ALTITUDE ~ 1000 FT ALL ENG. DIST TO 35 FEET 1000 FT AIRPORT AMBIENT TEMP DISE NOMOGRAPH

HORIZONTAL DISTANCE FROM REFERENCE ZERO ~ 1000 FT
FIGURE 3-32 L-1011 1/RB 711 22B RATE OF CLIMB AND CLIMB GRADIENT
FOR ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER)
ECS BIZED ON 10° FLAPS







AND CLIMB GRADIENT ÄR UP (TAKEOFF POWER)

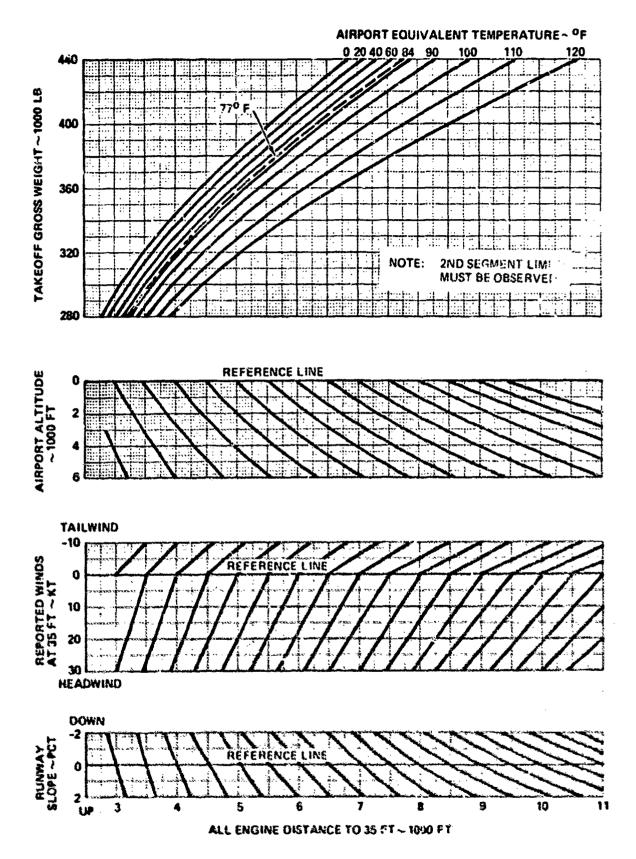


FIGURE 3-33 & 1011 1/R8.211-228 ALL ENGINE DISTANCE TO 35 FEET 18° FLAPS

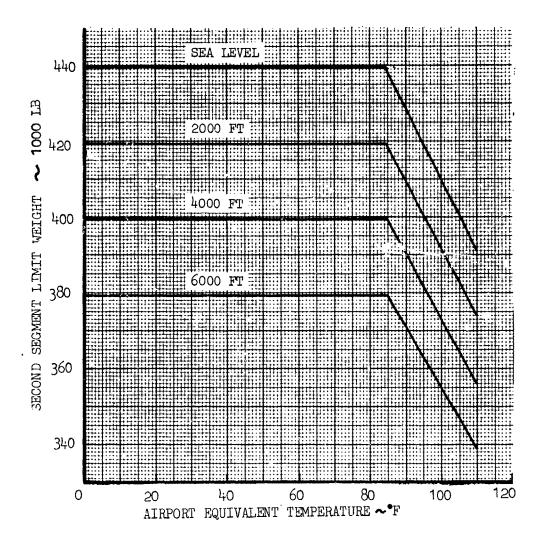
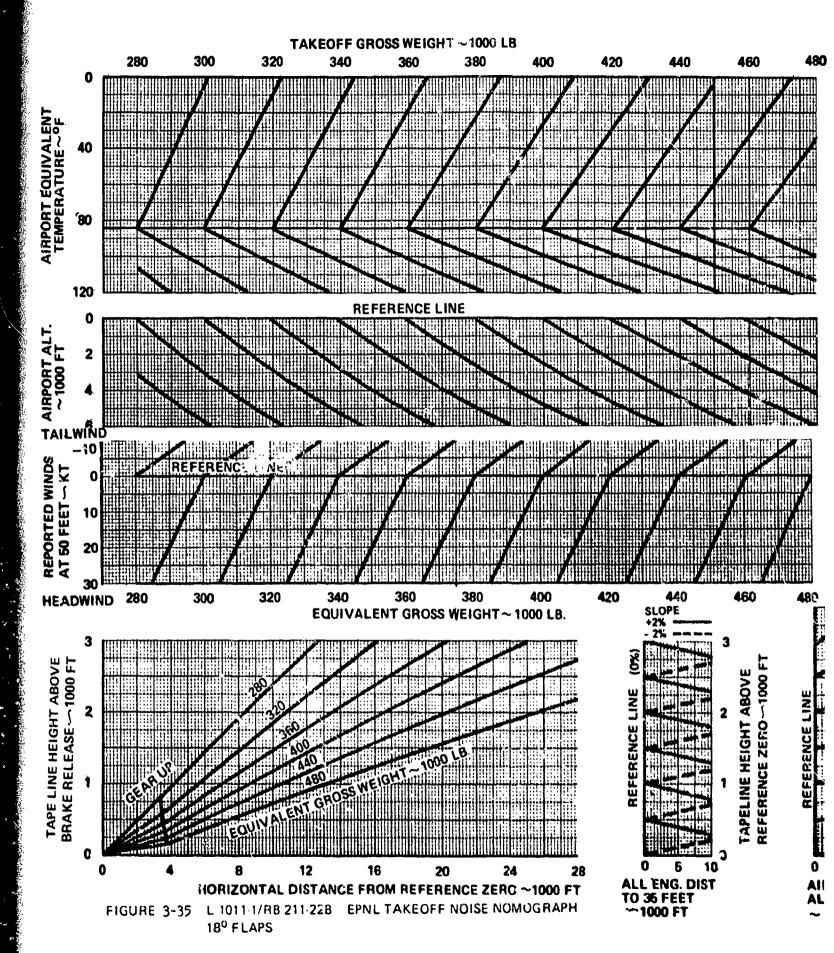
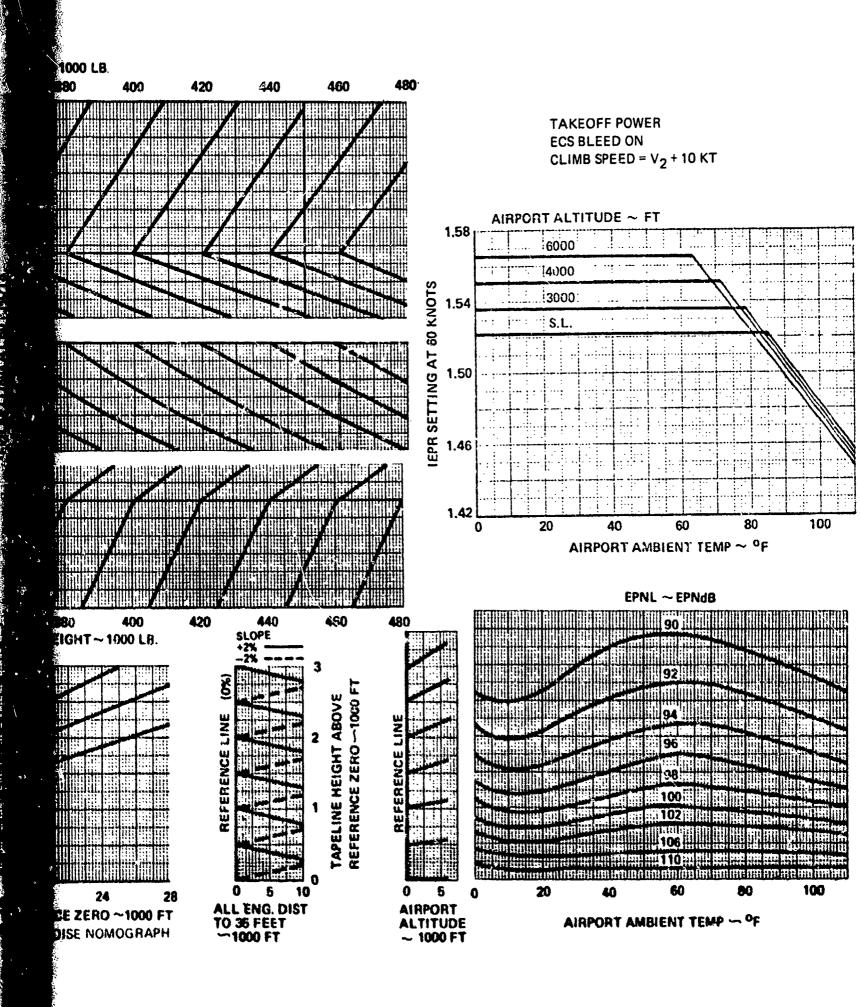
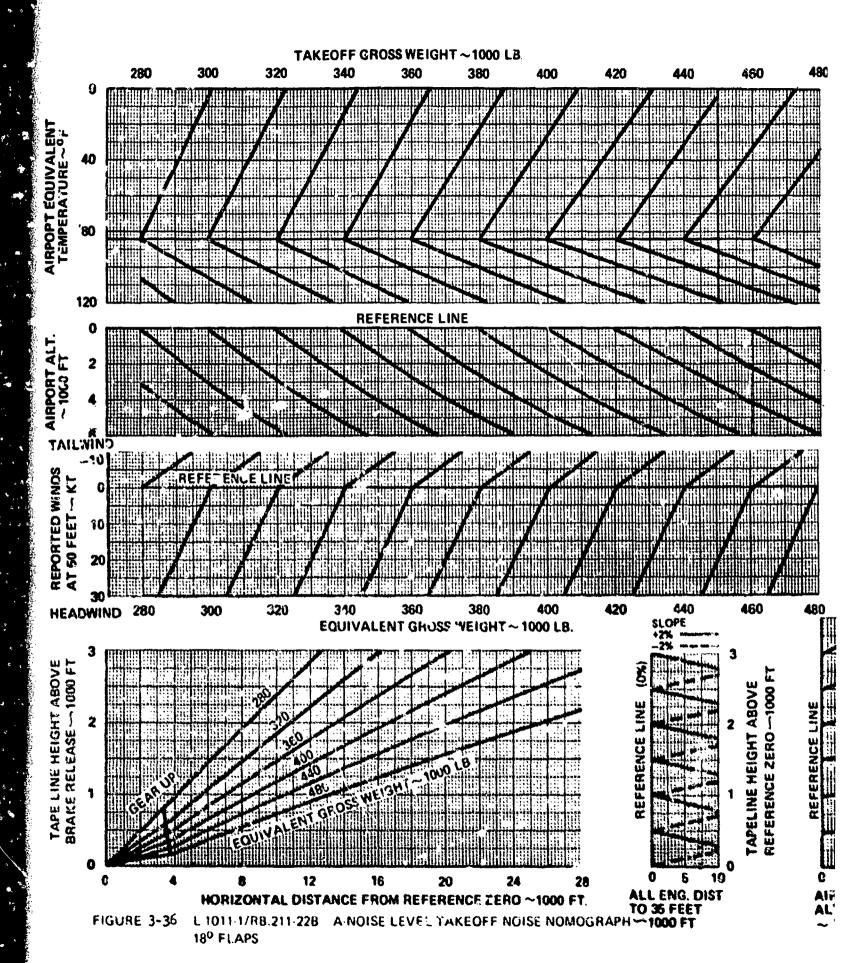
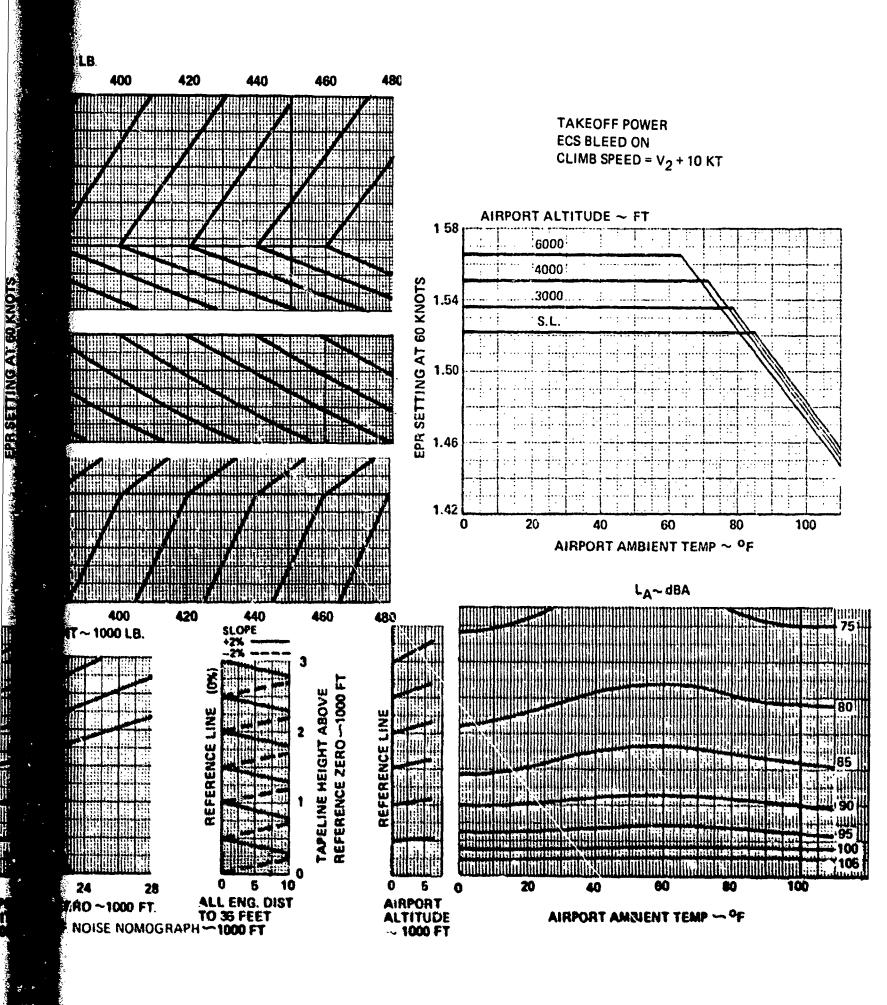


FIGURE 3-34 L-1011-1/RB.211-228 SECOND SEGMENT LIMIT WEIGHTS 180 FLAPS









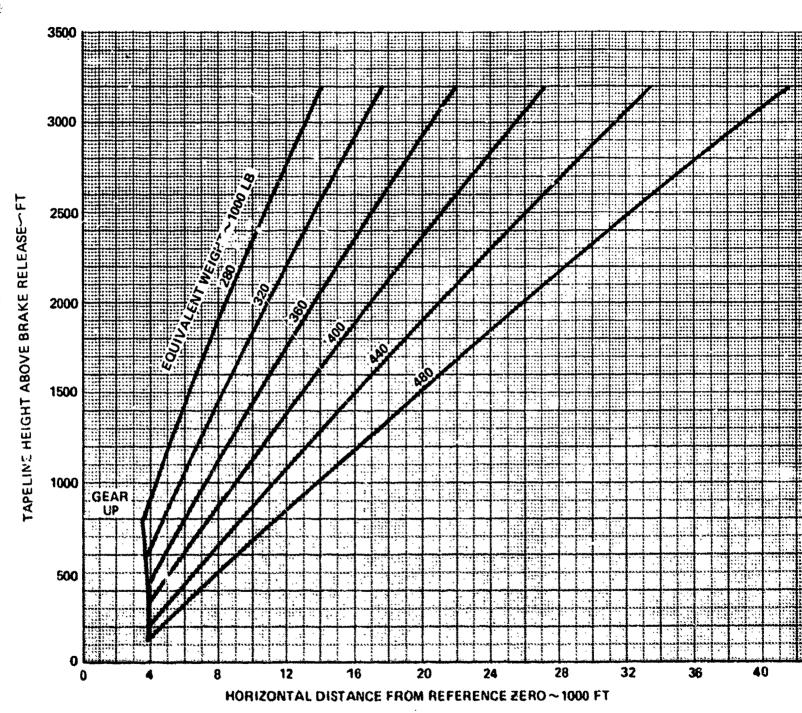
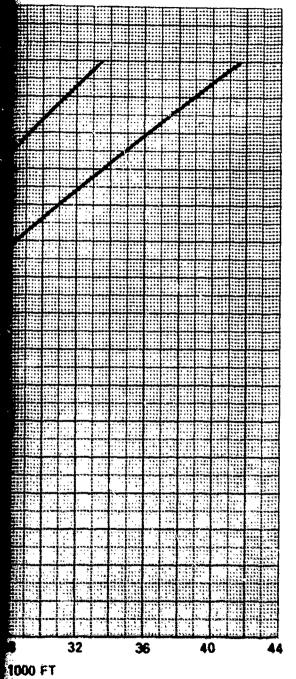
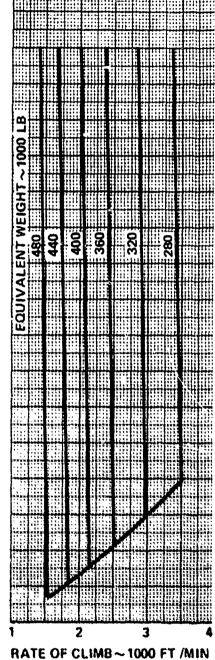
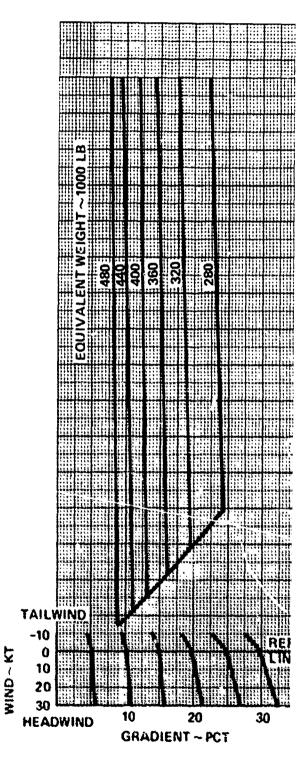


FIGURE 3-37 L-1011-1/RB.211-22B RATE OF CLIMB AND CLIMB GRADIENT ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER)

ECS BLEED CR 180 PLAPS







LIMB GRADIENT

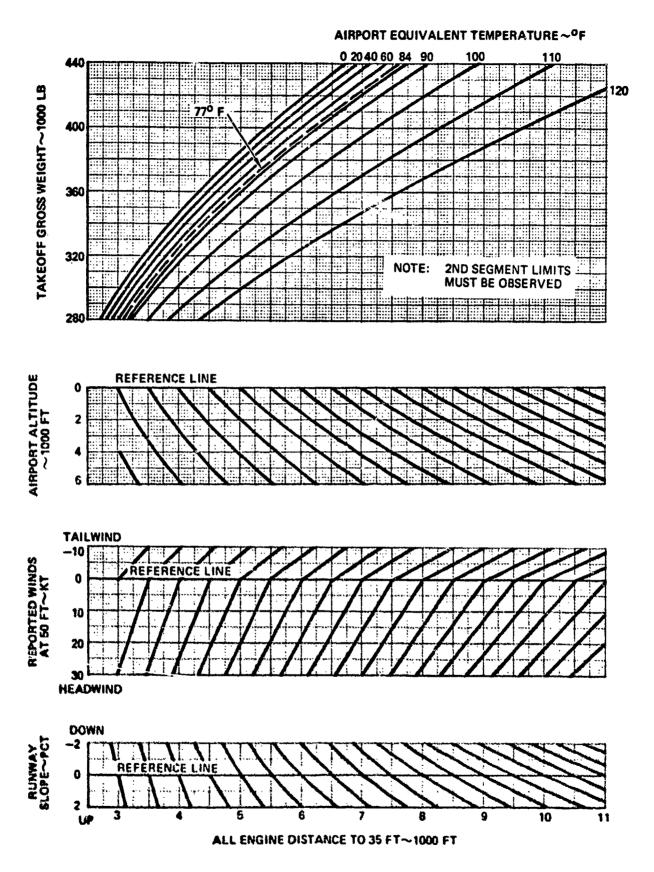


FIGURE 3-38 L-1011-1/RB.211-22B ALL ENGINE DISTANCE TO 35 FEET 22° FLAPS

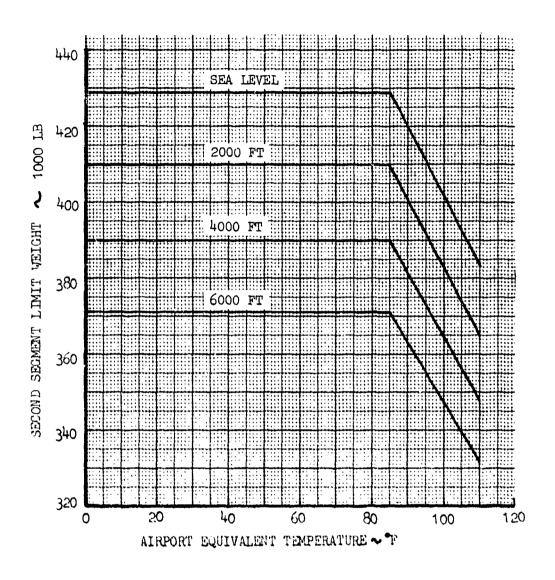
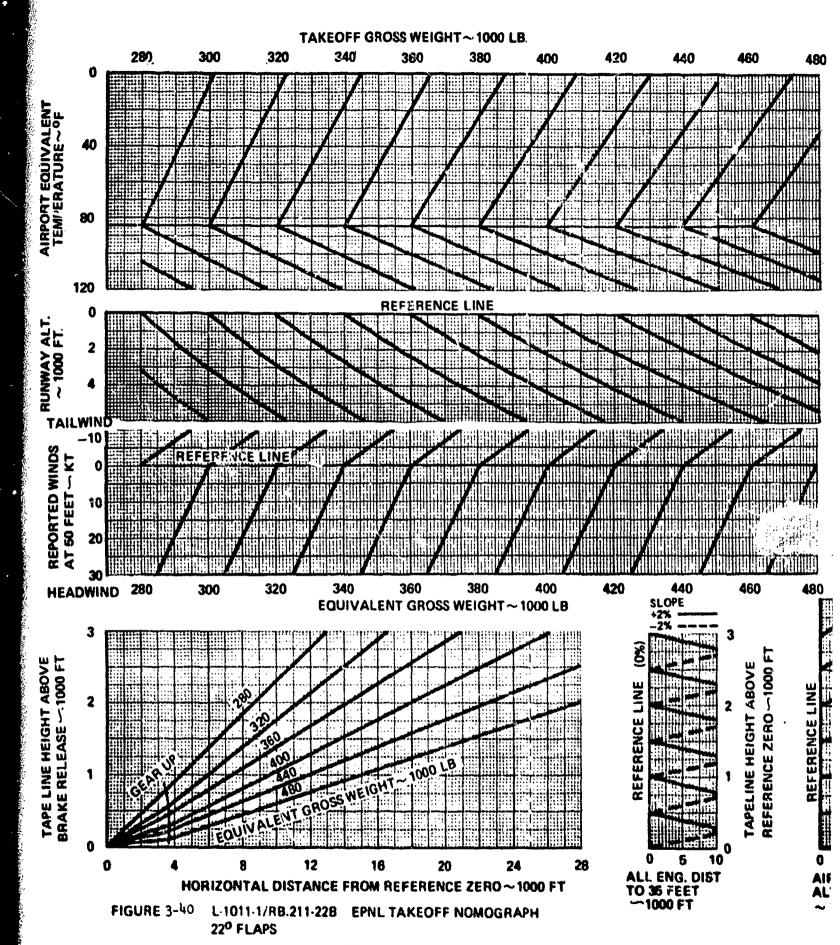
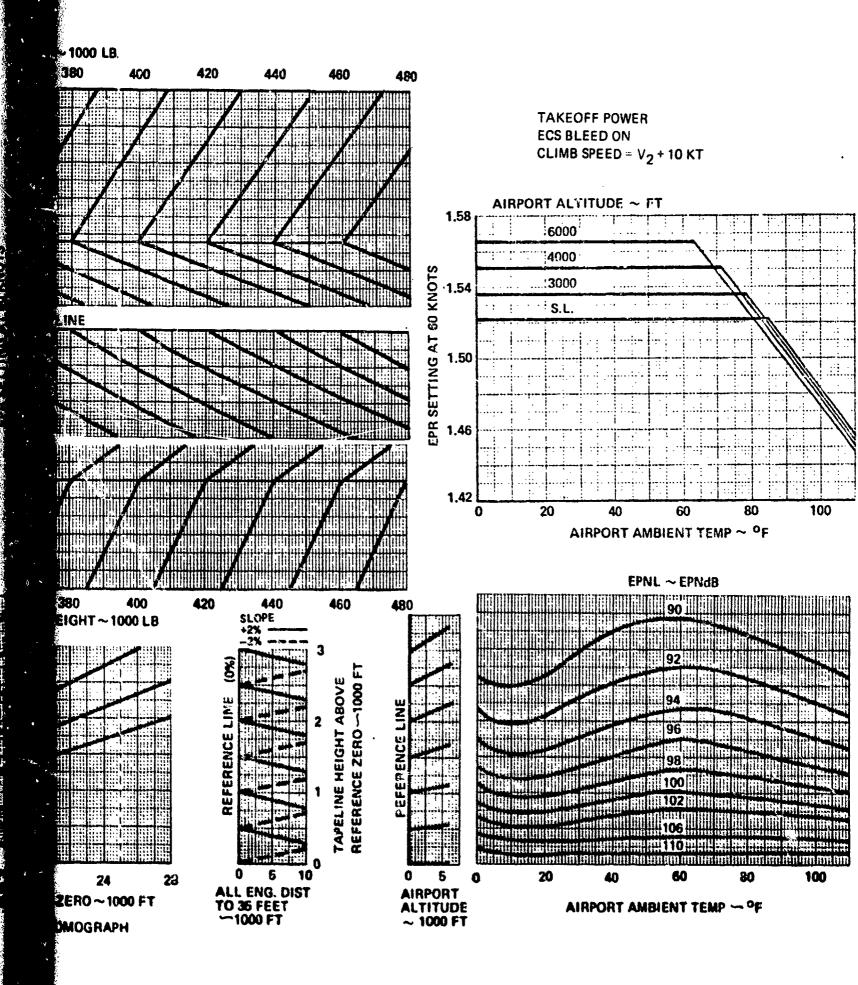


FIGURE 3-39 L-1011-1/RB.211-22B SECOND SEGMENT LIMIT WEIGHTS 22° FIAPS





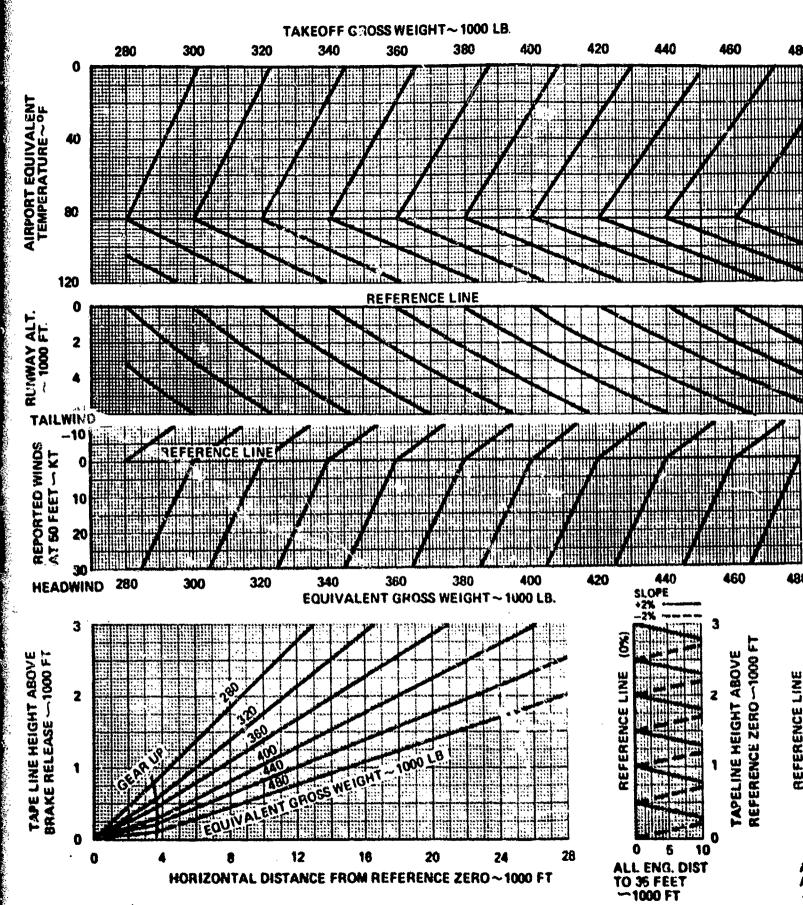
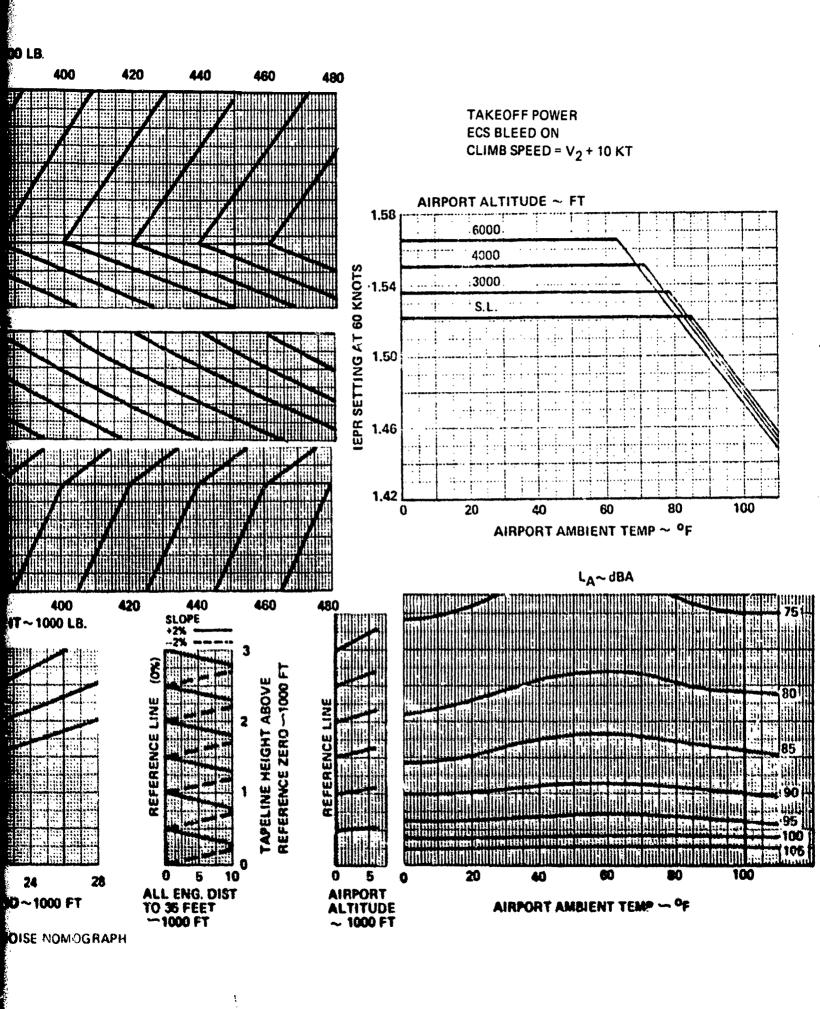


FIGURE 3-41 L-1011-1/RB.211-22B A-NOISE LEVEL TAKEOFF NOISE NOMOGRAPH 220 FLAPS



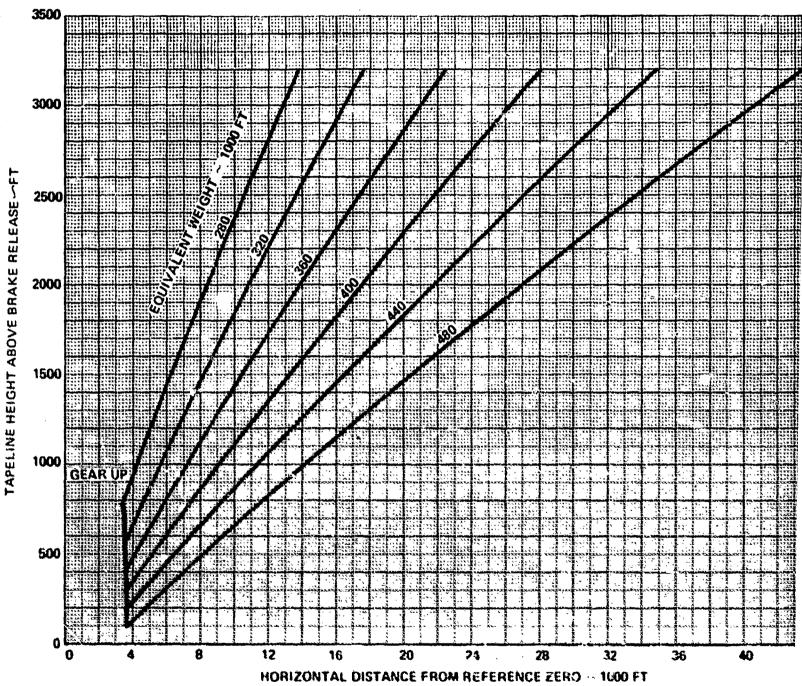
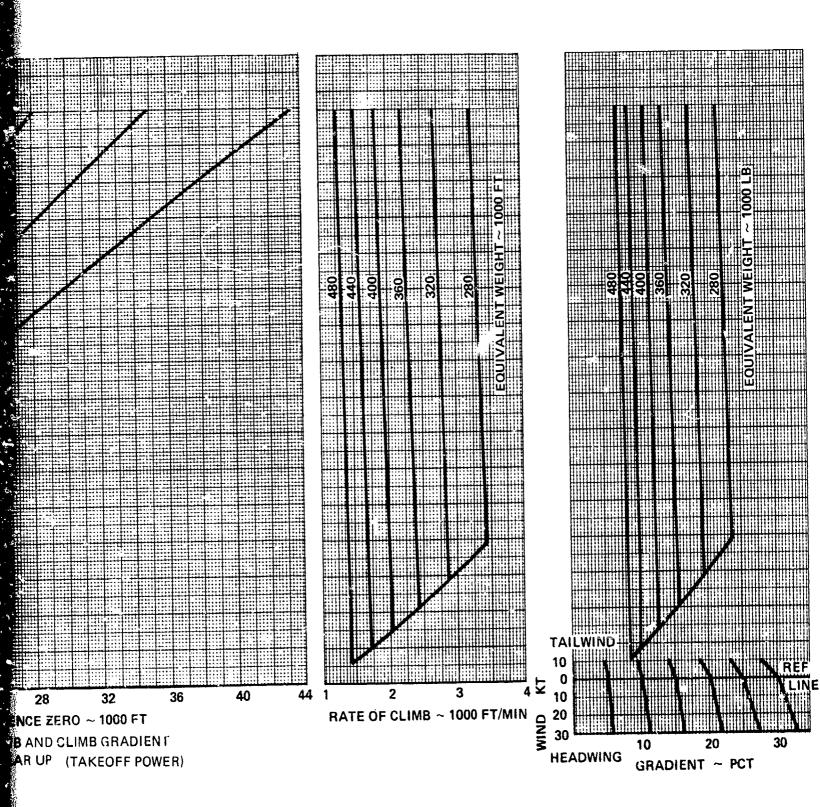
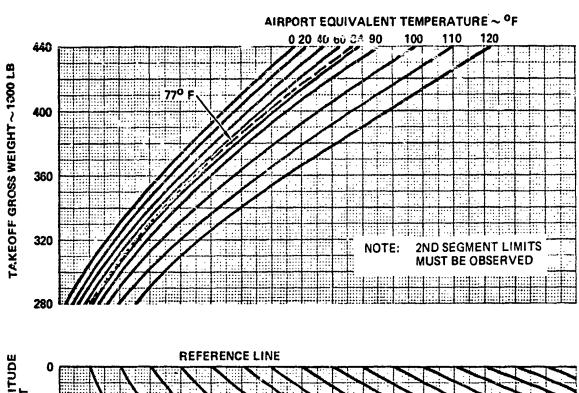
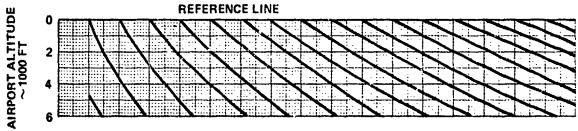
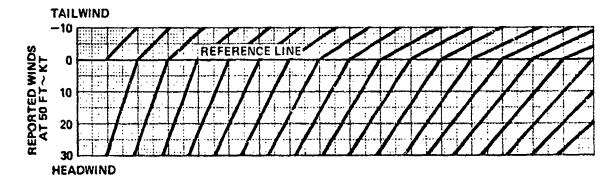


FIGURE 3-42 L 1011 1/RB 211-228 RATE OF CLIMB AND CLIMB GRADIENT FOR ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER) ECS BLEED ON 22 FLAPS









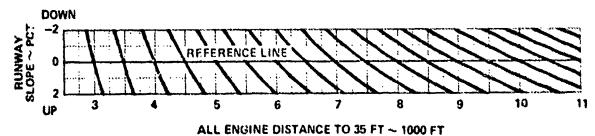


FIGURE 3-43 L-1011-1/RR-211-22B ALL ENGINE DISTANCE TO 35 FEET 27° FLAPS

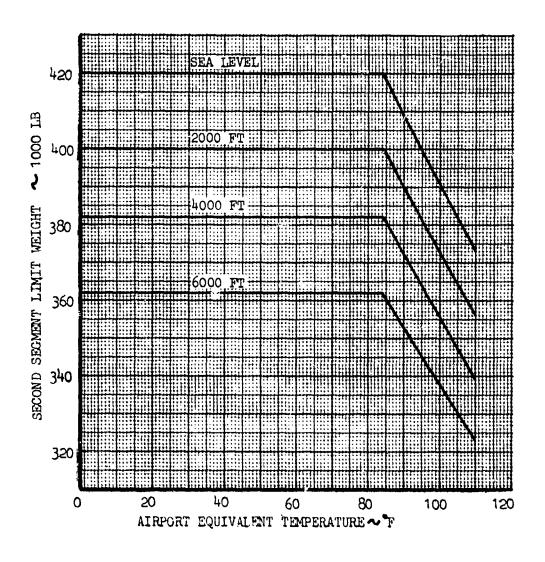
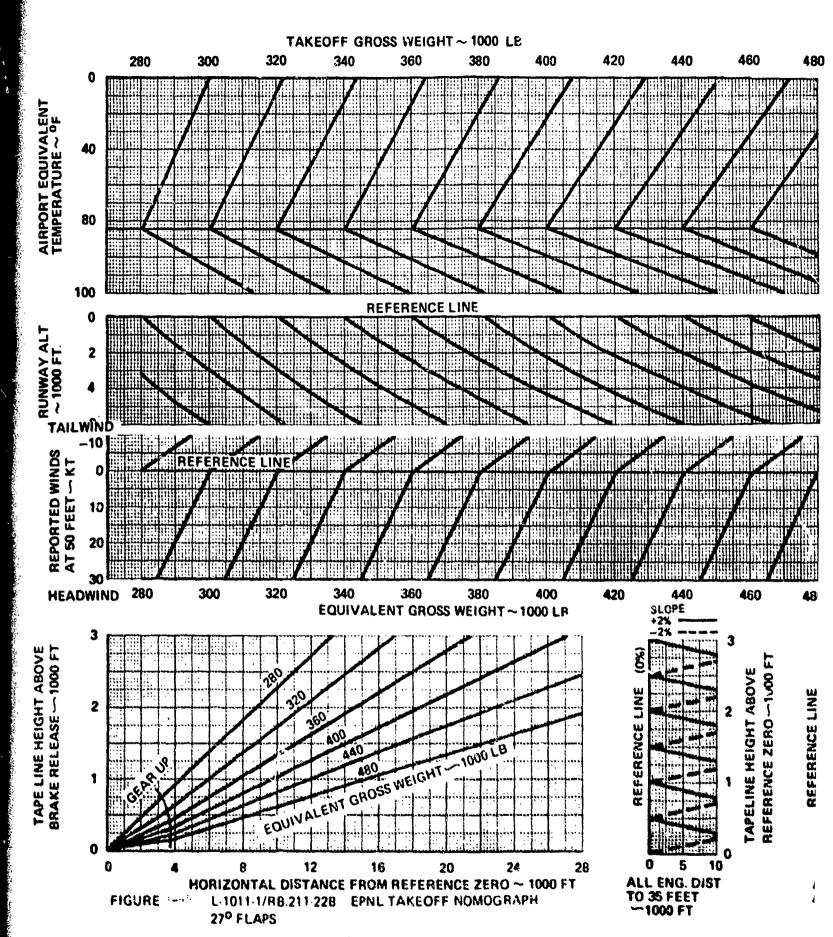
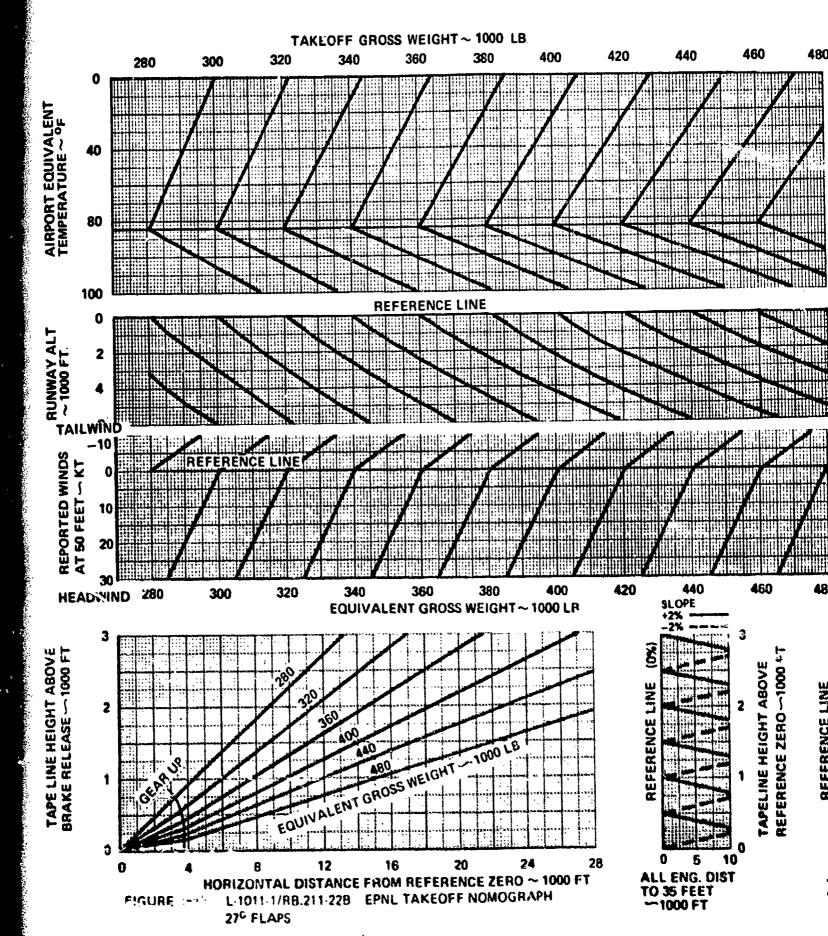
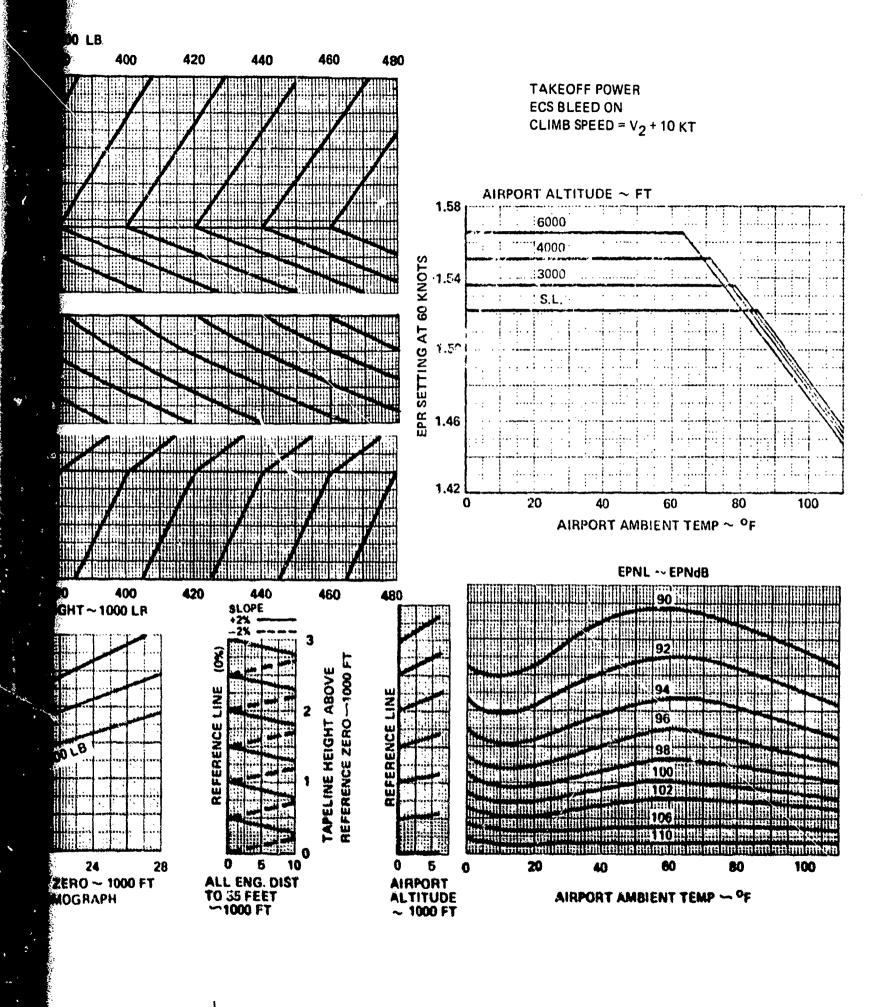
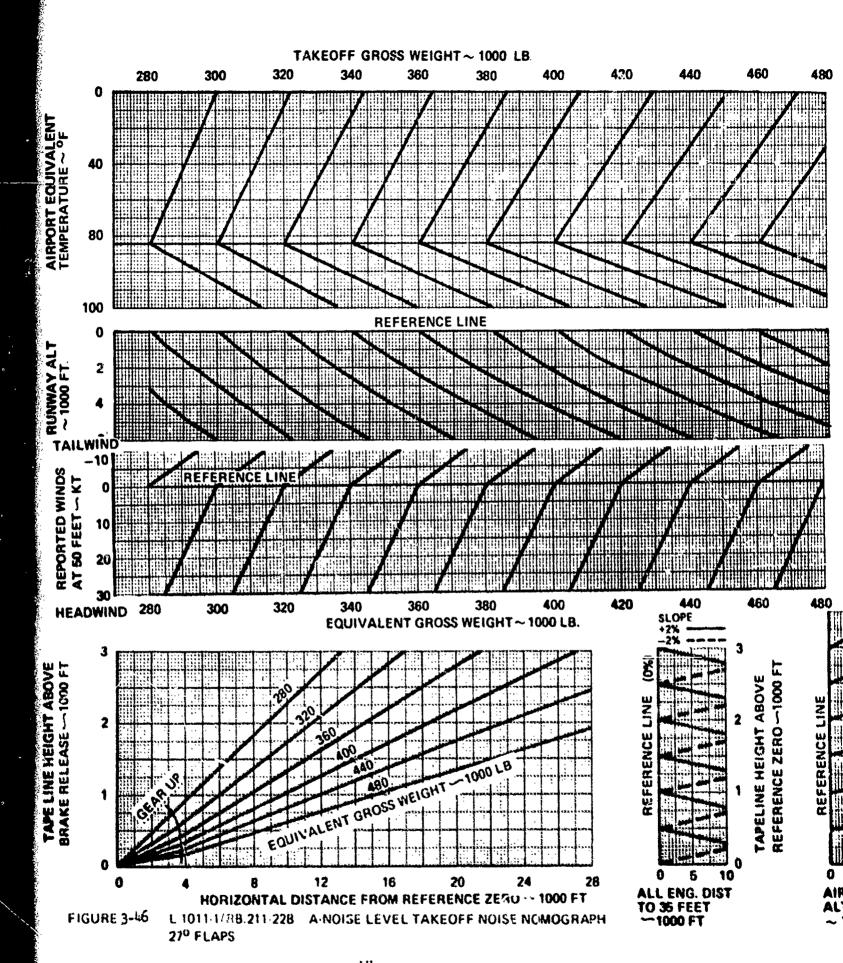


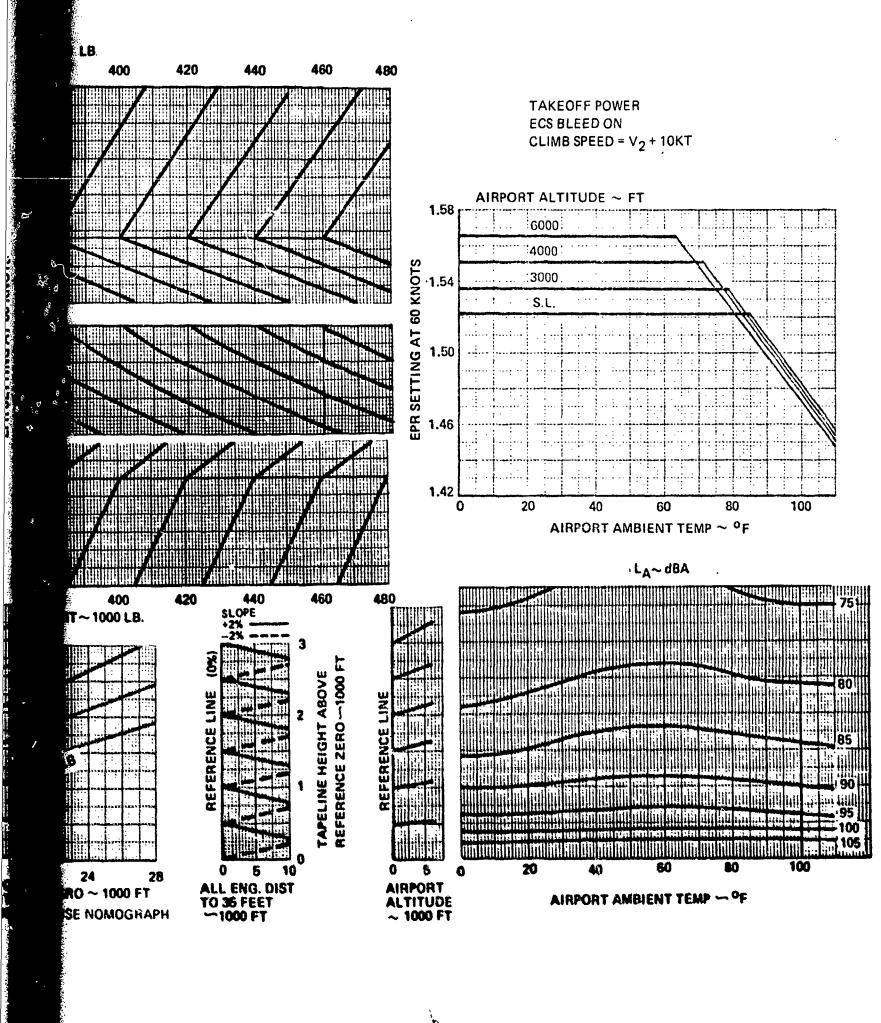
FIGURE 3-44 L-1011-1/RB.211-22B SECOND SEGMENT LIMIT WEIGHTS 27° FLAPS











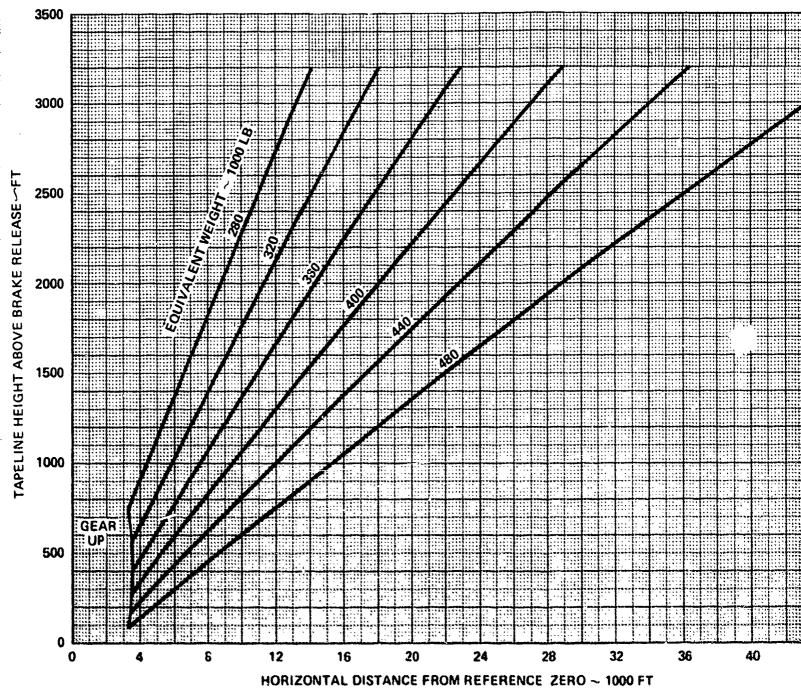
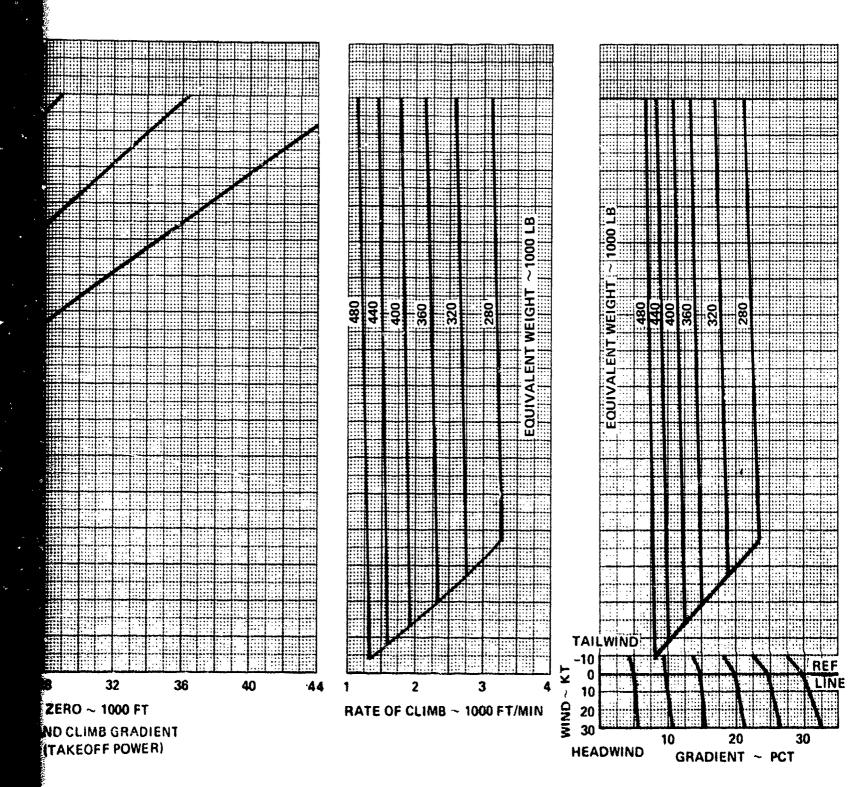


FIGURE 3-47 L-1011-1/RB.211-22B RATE OF CLIMB AND CLIMB GRADIENT ALL ENGINE FLIGHT AFTER GEAR UP (TAKEOFF POWER) ECS, BLEED ON 27° FLAPS



SECTION IV APPROACH PERFORMANCE

SECTION IV

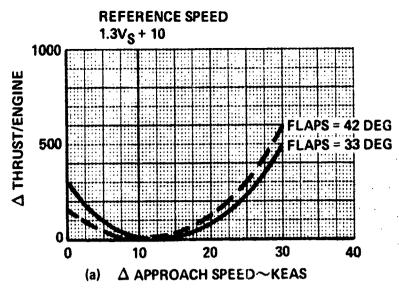
APPROACH PERFORMANCE

The approach graphs permit determination of thrust-required from flap setting, DLC, glide angle and gross weight (Figure 4-2, 4-3). The approach speed and wind condition for a particular landing, are used to correct the thrust-required from that at reference speed of 1.3 V $_{\rm S}$ + 10 knots and reference wind of zero knots (Figure 4-1). At a given airport elevation the corrected fan speed, N $_{\rm l}/\sqrt{\theta}$, can be found for the thrust required. Height above runway and N $_{\rm l}/\theta$ determines the EPNL or A-noise level for 77° F, 70% relative humidity, at sea level. These noise levels can be corrected to other airport elevations and temperatures (at 70% relative humidity) on Figures 4-2 and 4-3.

1. Approach Conditions

	Airport elevation	Oft.
	Airport ambient temperature	77° F
	Glide slope angle	3°
	Landing gross weight	358,000 lbs.
	Flap	42°
	Approach speed	1.3 V _s + 10 kts.
	Wind speed	O kts.
2.	Figure 4a	
	Flap	42°
	Approach speed	1.3 V _s + 10 kts.
	Δ thrust per engine	0 lbs.
3.	Figure 4.1b	
	Glide slope angle	3°
	Wind speed	O kts.
	Δ thrust per engine	O lbs.
4.	Figure 4.2, Upper Right	
	Flap	42°, DLC on
	Glide slope angle	3°
	Landing gross weight	358,000 lbs.
	Thrust required per engine	12,000 lbs.

5.	Figure 4.2, Upper Center	
	Corrected thrust per engine (from 2. to 3.)	12,200 lbs.
	Airport elevation	oft.
	$N_1/\sqrt{\theta}$	66.6 %
6.	Figure 4.2, Lower Left	
	Glide slope angle	3°
	Distance to threshold	6080 ft.
	Height of airplane above noise monitor	370 ft.
7.	Figure 4.2, Lower Center	
	$N_{\gamma}/\sqrt{\Theta}$	66.6 %
	Height above noise monitor	370 ft.
	Equivalent height	400 ft.
8.	Figure 4.2, Lower Right	
	Equivalent height	400 ft.
	Ambient temperature	77°
	Effective perceived noise level at 1 n mi from threshold	103 EPNdB



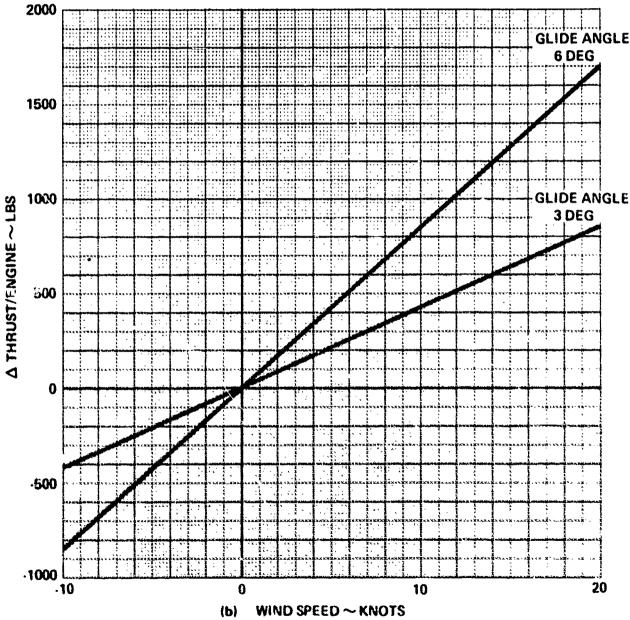
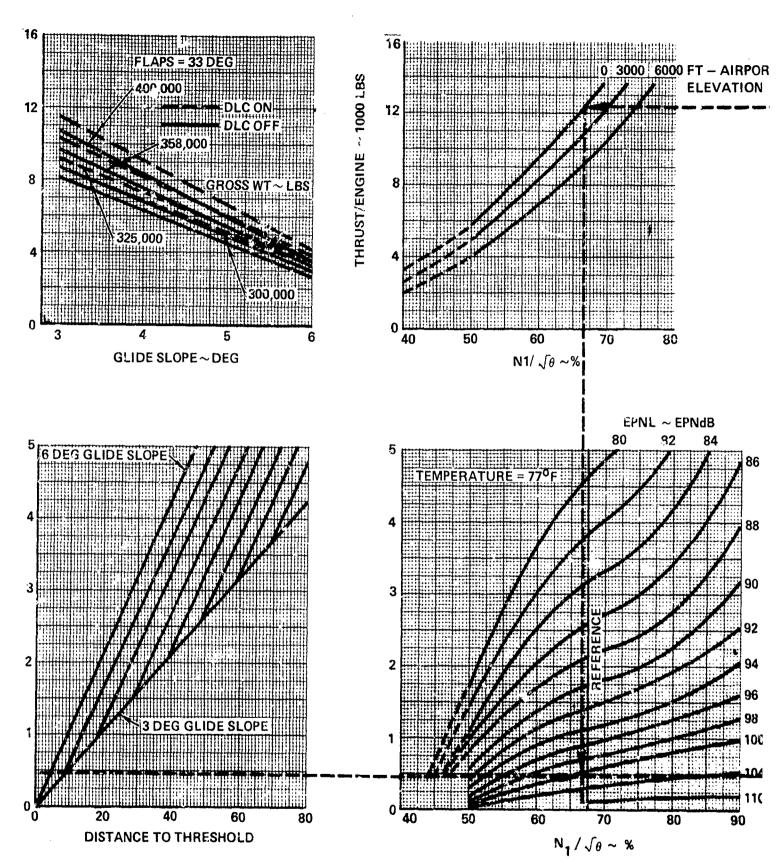
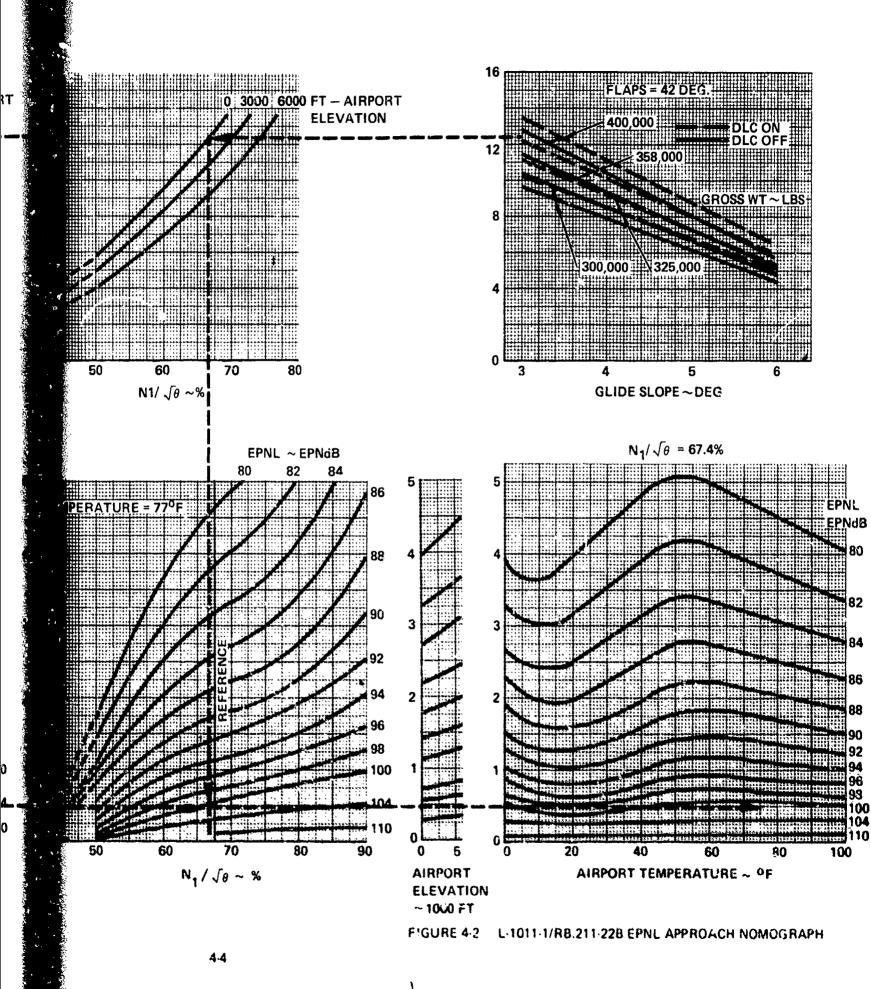


FIGURE 4-1 L-1011-1/RB.211-22B APPROACH THRUST CORRECTION
a. SPEED EFFECT AT ZERO WIND, ALL GLIDE ANGLES

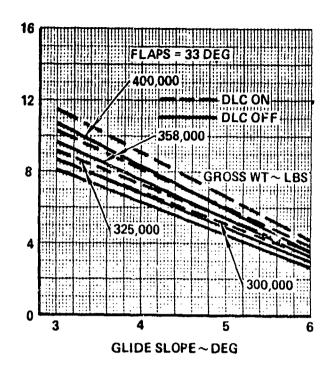
b. WIND EFFECT

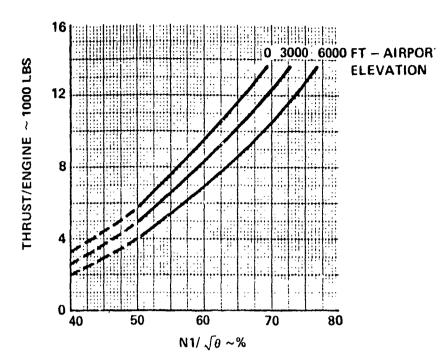


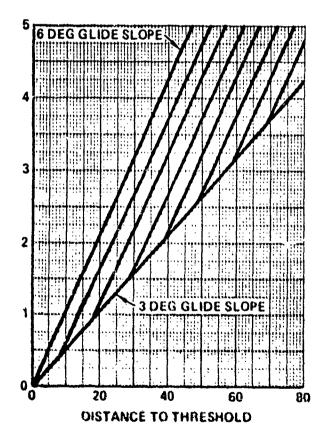


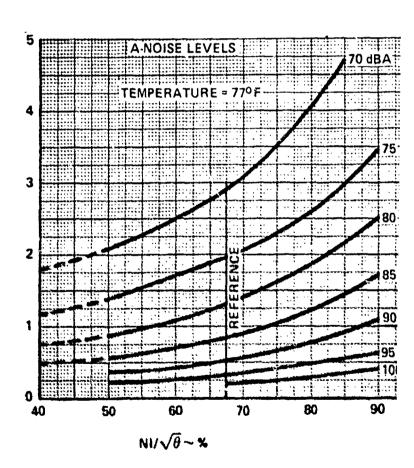


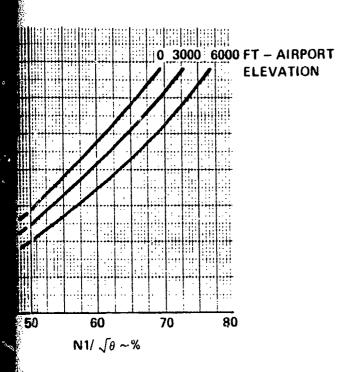
HEIGHTH ABOVE RUNWAY ~ 1000 FT

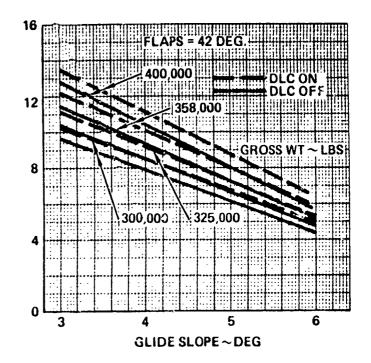


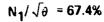












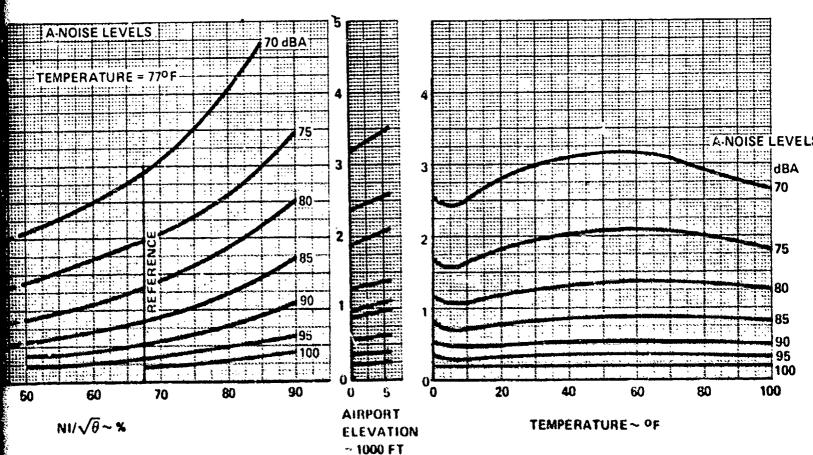
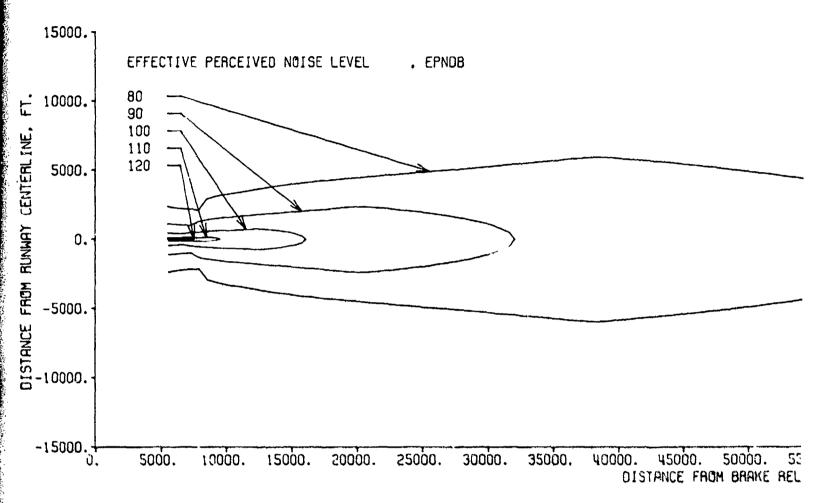


FIGURE 4.3 L 1011 1/RB 211 22B A NOISE LEVEL APPROACH NOMOGRAPI

SECTION V NOISE FOOTPRINTS



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00. 45000. 50000. 55000. 60000. 65600. 70000. 75000. 80000. 85000. 90000. 95000, 100000. DISTANCE FACM BRAKE RELEASE. FT.

AKEUFF THRUST

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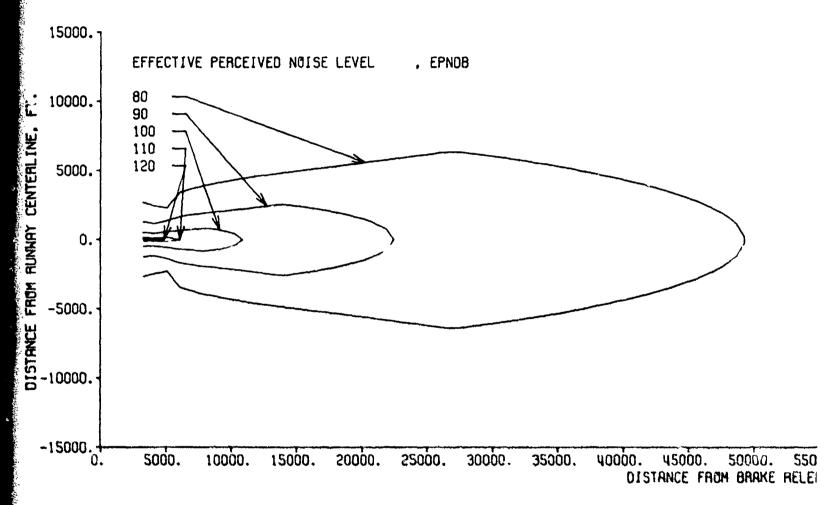


FIGURE 5-2 CONTOUR PLOTS
L-1011-1 / RB211-22B EFFECTIVE PERCEIVED NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
350,000 LB. TAKEOFF WEIGHT, 10 DEG. FLAPS, TAKEOFF THRUST

| CONTOUR | AREA | |
|---------|----------------|--|
| EPNdB | SQ. MILES | |
| 80 | 15. <i>2</i> 7 | |
| 90 | 2. 58 | |
| 100 | 0.33 | |
| 110 | 0. 02 | |
| 120 | 0.00 | |

000. 45000. 50000, 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000 DISTANCE FACH BRAKE RELEASE. FT.

EL

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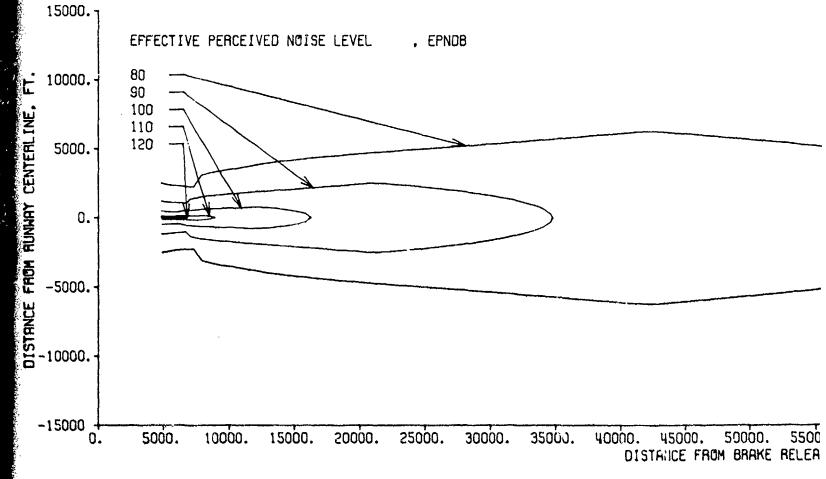


FIGURE 5-3 CONTOUR PLOTS
L-1011-1 / R8211-228 EFFECTIVE PERCEIVED NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAXIMUM TAKEOFF WEIGHT (430,000LB.), 22 DEG. FLAPS, TAKEOFF THRUST

6

F

| CONTOUR | AREA | |
|---------|-----------|--|
| EPNdB | SQ. MILES | |
| 80 | 24. 21 | |
| 90 | 3.93 | |
| 100 | 0. 43 | |
| 110 | 0.03 | |
| 120 | 0, 00 | |

DO. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000 DISTANCE FROM BRAKE RELEASE. FT.

TAKEOFF THRUST

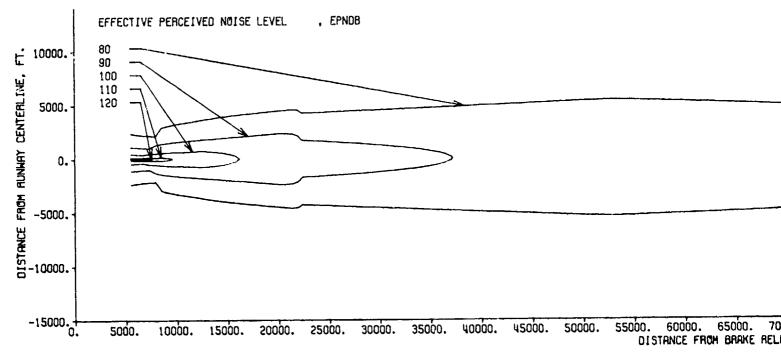


FIGURE 5-4 CONTOUR PLOTS
L-1011-1 / RB211-228 EFFECTIVE PERCEIVED NOISE LEVEL
SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAXIMUM TAKEOFF WEIGHT, 10 DEG. FLAPS. FAR 36 CUTBACK AT 3.5 N. MILES

| CONTOUR | AREA |
|---------|-----------|
| EPNdB | SQ. MILES |
| 80 | 34.68 |
| 90 | 3.46 |
| 100 | 0.57 |
| 110 | 0.03 |
| 120 | 0.00 |
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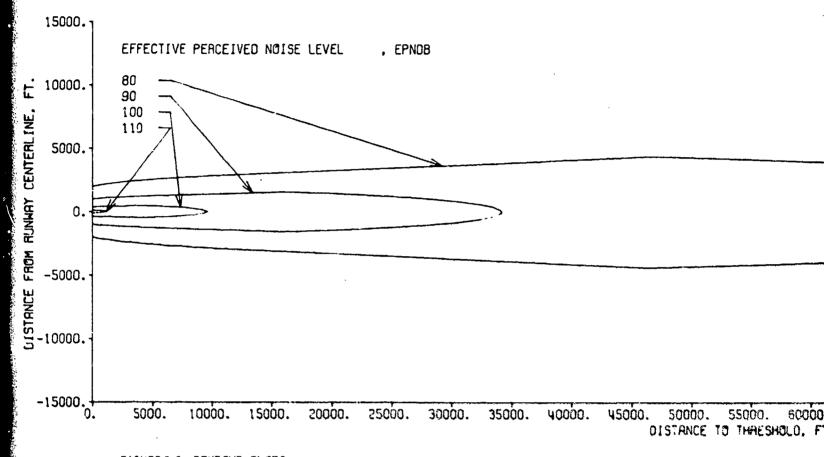


FIGURE 5-5 CONTOUR PLOTS
L-1011-1 / AB211-22B EFFECTIVE PERCEIVED NOTSE LEVEL
SEA LEVEL. 77 OFF F.. 70% RELATIVE HUMIDITY
HAXIMUM LANDING HEIGHT (358,000LB.). 42DEG. FLRPS, DLC. 30EG GLIDE SLOPE

| CONTOUR | AREA |
|---------|-----------|
| EPNdB | SQ. MILES |
| 80 | 23.38 |
| 90 | 2, 98 |
| 100 | 0. 26 |
| 110 | 0.00 |

50000. 55000. 60000. 65000. 70000. 75000. 83000. 85000. 90000. 95000. 100000. 105000. 110000.

OE SLOPE 5-5

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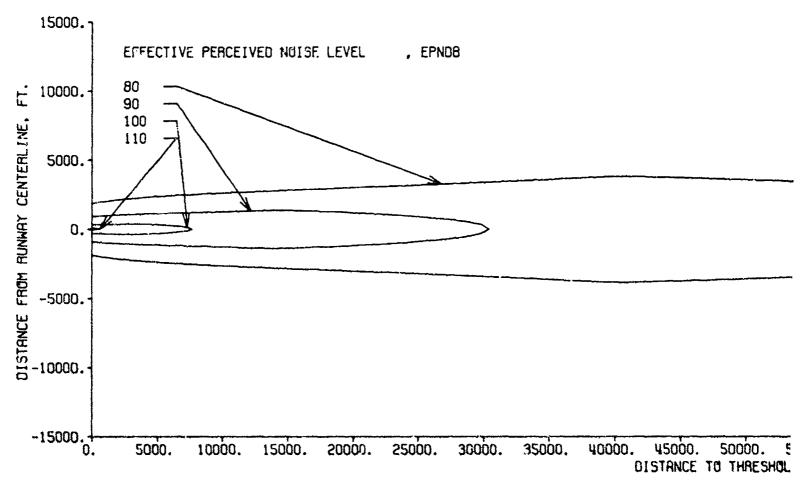


FIGURE 5-6 CONTOUR PLOTS
L-1011-1 / RB211-228 EFFECTIVE PERCEIVED NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
300,000 LB, LANDING WEIGHT, 42 DEG. FLAPS, DLC, 3 DEG. GLIDE SLOPE

| CONTOUR | AREA | |
|---------|---------------|--|
| EPNdB | SQ. MILES | |
| 80 | 18. 49 | |
| 90 | 2. 36 | |
| 100 | 0. 17 | |
| 110 | 0.00 | |

. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000. DISTANCE TO THRESHOLD, FT.

GLIDE SLOPE 5-6

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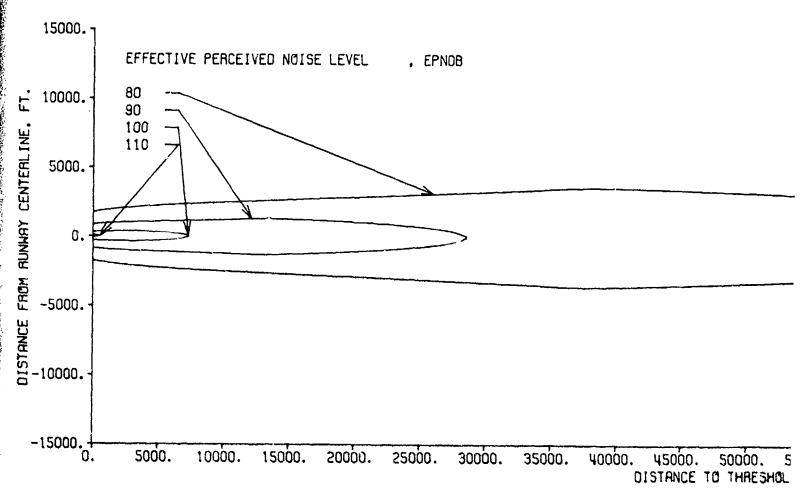


FIGURE 5-7 CONTOUR PLOTS
L-1011-1 / RB211-22B EFFECTIVE PERCEIVED NOISE LEVEL
SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAX LANDING WEIGHT (358,000 LB.). 33 DEG. FLAPS. DLC. 3 DEG. GLIDE SLOPE

| | | CONTOUR | <u>AREA</u> |
|---|----|---------|-------------|
| | •- | EPNdB | SQ. MILES |
| | | 80 | 16.38 |
| | | 90 | 2.10 |
| | | 100 | 0.16 |
| • | | 110 | 0.00 |
| | | | |

00. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000 DISTANCE TO THRESHOLD. FT.

3 DEG. GLIDE SLOPE

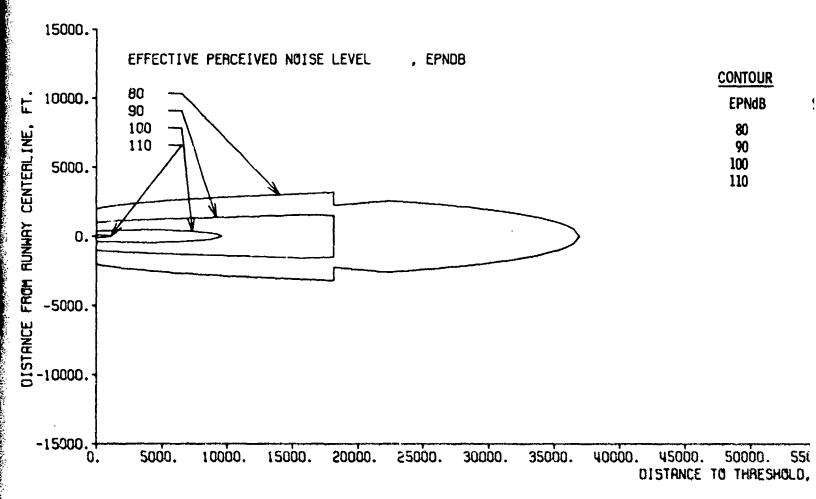


FIGURE 5-8 CONTOUR PLOTS
L-1011-1 / RB211-228 EFFECTIVE PERCEIVED NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAX LANDING WT., 42 DEG. FLAPS, DLC. 6/3 DEG. 1WO SEGMENT • 1000 FEET

| CONTOUR | AREA | |
|---------|-----------|--|
| EPNdB | SQ. MILES | |
| 80 | 6. 22 | |
| 90 | 1.76 | |
| 100 | 0. 26 | |
| 110 | 0. 00 | |

00. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 10000 DISTANCE TO THRESHOLD, FT.

GNENT • 1000 FEET

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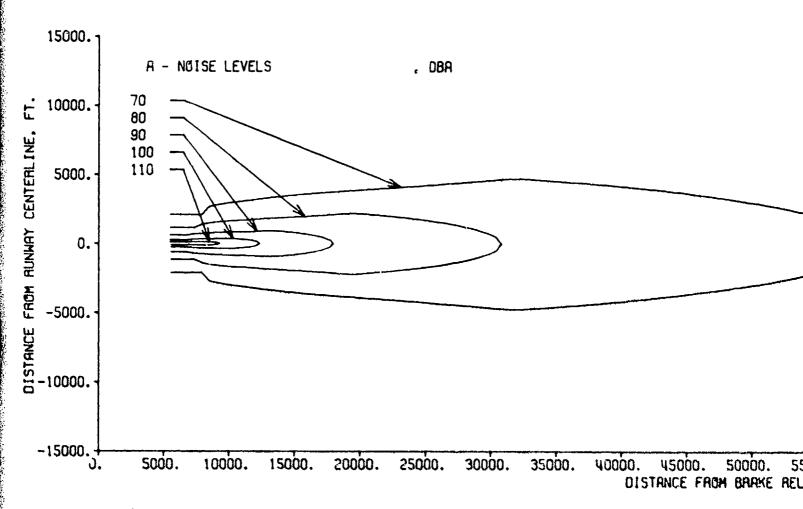
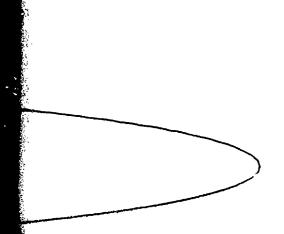


FIGURE 5-9 CONTOUR PLOTS
L-1011-1 / R8211-228 A-NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
NAXIMUM TAKEOFF WEIGHT (430.000L8.), 10 DEG. FLAPS. TAKEOFF THRUST



| CONTOUR | AREA | |
|---------|-----------|--|
| dBA | SQ. MILES | |
| 70 | 13, 46 | |
| 80 | 3.00 | |
| 90 | 0.66 | |
| 100 | 0. 14 | |
| 110 | 0.03 | |

. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000.

REOFF THRUST 5-9

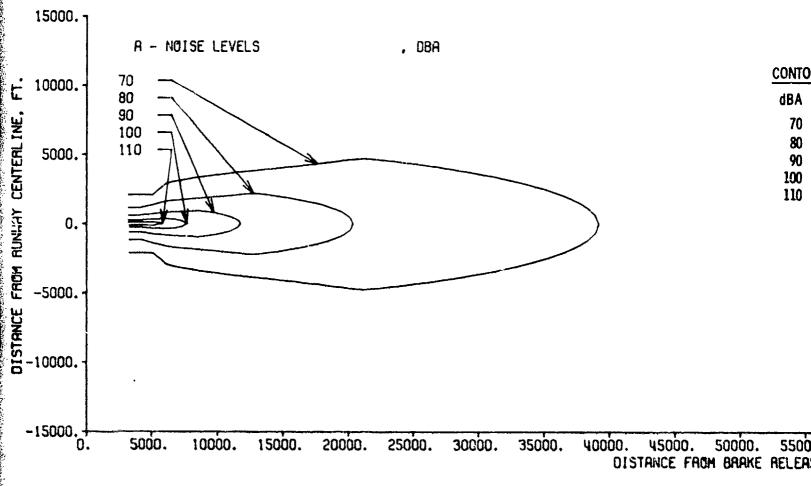


FIGURE 5-10 CONTOUR PLOTS
L-1011-1 / RB211-22B A-NOISE LEVEL
SEA LEVEL. 77 DEG. F., 70% RELATIVE HUMIDITY
350,000 LB. TAKEOFF HEIGHT, 10 DEG. FLRPS. TAKEOFF THRUST

•

| AREA
SQ. MILES | |
|-------------------|--|
| | |
| 2. 03 | |
| 0. 44 | |
| 0.09 | |
| 0. 02 | |
| | |

. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000.

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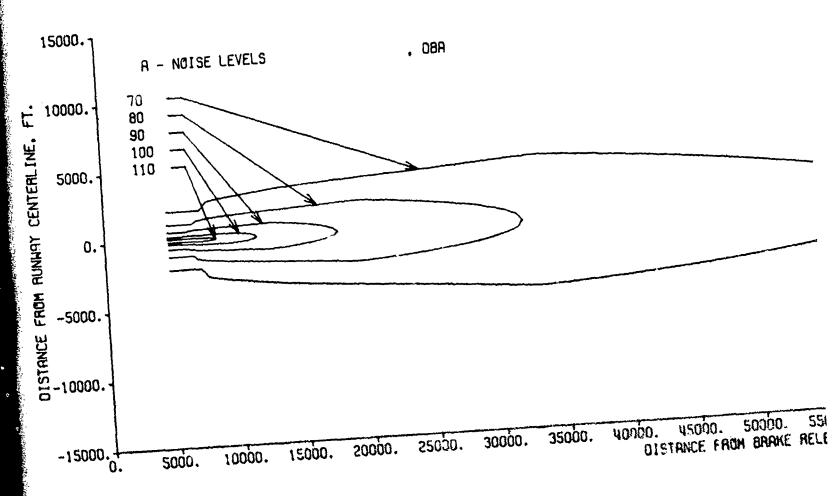


FIGURE 5-11 CONTOUR PLOTS
L-1011-1 / RB211-228 A-NOISE LEVEL
SEA LEVEL, 77 DEG. F. 70% RELATIVE HUMIDITY
SEA LEVEL, 77 DEG. F. 70% RELATIVE HUMIDITY
MAXIMUM TAKEOFF WEIGHT 1/130, COOL8.1, 22 DEG. FLA25. TAKEOFF THRUST

| CONTOUR | AREA | |
|---------|------------------|--|
| dBA | SQ. MILES | |
| 70 | 14. 86 | |
| 80 | 3.25 | |
| 90 | 0. 69 | |
| 100 | 0. 14 | |
| 110 | 0. 03 | |
| | | |

000. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 10000 DISTANCE FROM BRAKE RELEASE, FT.

TAKEOFF THRUST 5-11

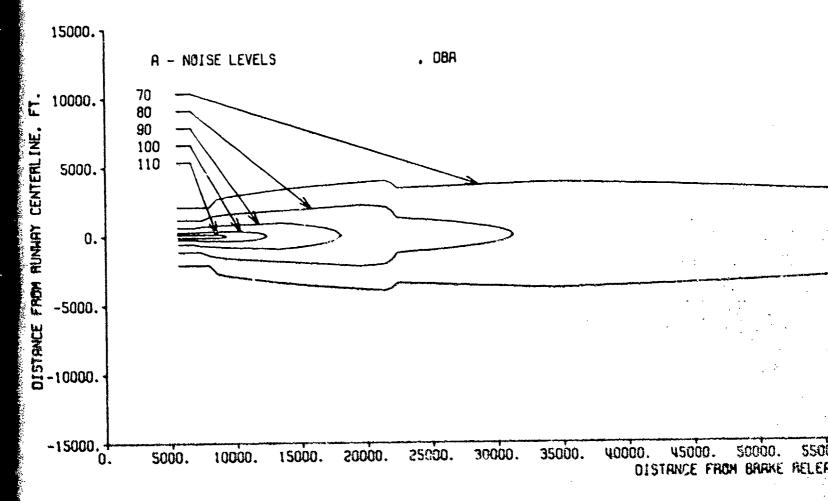


FIGURE 5-12 CONTOUR PLOTS
L-1011-1 / RB211-22B A-NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
NAXIMUM TAKEOFF WEIGHT, 10 DEG. FLAPS. FAR 36 CUTBACK AT 3.5 N. HILES

| | | CONTOUR dBA 70 80 90 100 110 | AREA SQ. MILES 17. 10 2. 69 0. 66 0. 14 0. 03 |
|--|--|------------------------------------|---|
| | | | |

0. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 1000000.

AT 3.5 N. MILES

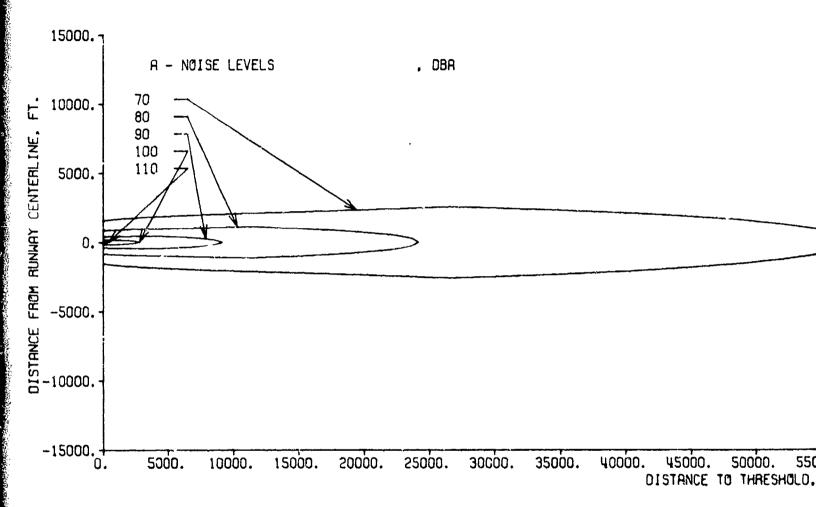


FIGURE 5-13 CONTOUR PLOTS
L-1011-1 / RB211-228 R-NOISE LEVEL
SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAXIMUM LANDING WEIGHT (358,000L8.), 42DEG. FLAPS, DLC, 30EG GLIDE SLOPE

| CONTOUR | AREA |
|---------|-----------|
| dBA | SQ. MILES |
| 70 | 8. 18 |
| 80 | 1.55 |
| 90 | 0. 24 |
| 100 | 0.03 |
| 110 | 0.00 |

000. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 10000 DISTANCE TO THRESHOLD, FT.

LC. 3DEG GLIDE SLOPE

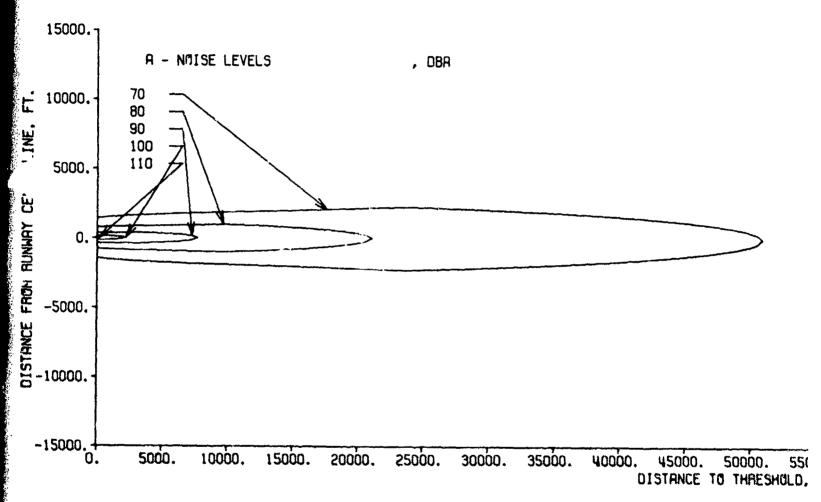


FIGURE 5-14 CONTOUR PLOTS
L-1011-1 / RB211-228 A-NOISE LEVEL
SEA LEVEL, 77 DEG. F., 70% RELATIVE HUNIDITY
300,000 LB. LANDING WEIGHT, 42 DEG. FLAPS, DLC. 3 DEG. GLIDE SLOPE

۲,

| CONTOUR | AREA |
|---------|-----------|
| dBA | SQ. MILES |
| 70 | 6. 47 |
| 80 | 1. 20 |
| 90 | 0. 18 |
| 100 | 0.02 |
| 110 | 0.00 |

). 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000 DISTANCE TO THRESHOLD, FT.

GLIDE SLOPE 5-14

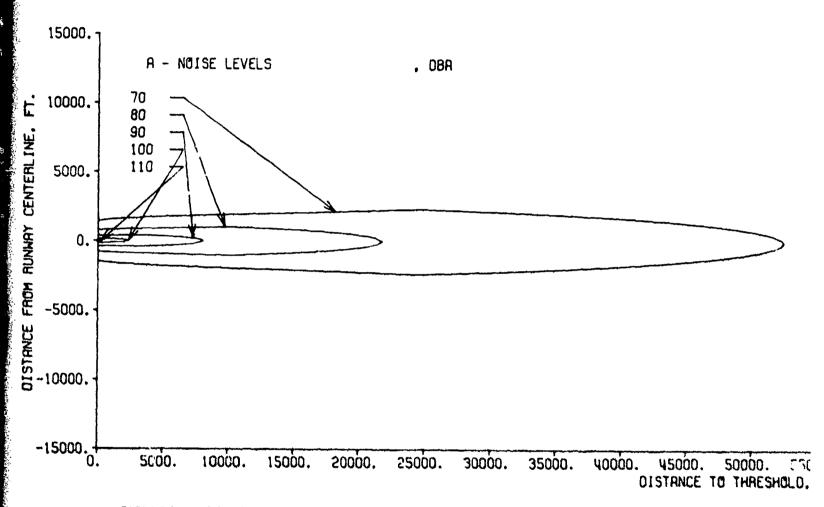


FIGURE 5-15 CONTOUR PLOTS
L-1011-1 / RB211-22B A-NOISE LEVEL
SER LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAX LANDING WEIGHT (358,000 LB.). 33 DEG. FLRPS. DLC. 3 DEG. GLIDE SLOPE

| CONTOUR | AREA |
|---------|-----------|
| dBA | SQ. MILES |
| 70 | 6. 84 |
| 80 | 1. 27 |
| 90 | 0. 19 |
| 100 | 0. 02 |
| 110 | 0.00 |

000. 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 1000 DISTANCE TO THRESHOLD, FT.

C, 3 DEG. GLIDE SLOPE

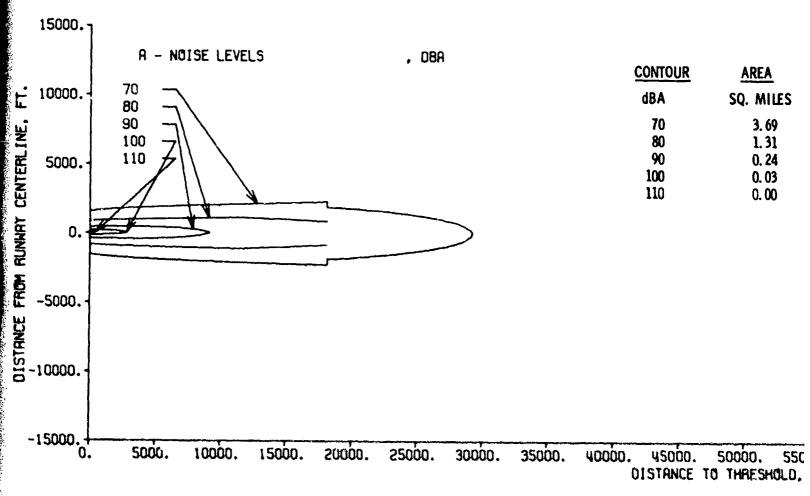


FIGURE 5-16 CONTOUR PLOTS
L-1011-1 / RB211-228 A-NOISE LEVEL
SER LEVEL, 77 DEG. F.. 70% RELATIVE HUMIDITY
MAX LANDING WY., 42 DEG. FLAPS, DLC, 6/3 DEG. THO SEGMENT • 1000 FEET

| CONTOUR | AREA |
|---------|-----------|
| dBA | SQ. MILES |
| 70 | 3, 69 |
| 80 | 1. 31 |
| 90 | 0. 24 |
| 100 | 0.03 |
| 110 | 0.00 |

8 E

D, 45000. 50000. 55000. 60000. 65000. 70000. 75000. 80000. 85000. 90000. 95000. 100000. DISTANCE TO THRESHOLD, FT.

NENT ● 1000 FEET 5-16

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|--------------------------------|--|---------|---------|-------------|-------|--------|--------|
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| 27.00.00 | 2 | | | | | 40.41 | 52.56 |
| \$40.000 A | C. C | 4 | | 10.11 | | | |
| | 7 | E 40 | | 78.03 | | 62.13 | 20.66 |
| 275.50 | | 2 | | | ** ** | 41.77 | 56.12 |
| 0000 × 60 | 107.20 | 47.64 | | 200 | | | |
| | 200 | () () | | 80.00 | | 04.83 | 21.63 |
| 10.000 | | *** | | | | (()) | 54.45 |
| 2000 | 101,95 | 99.42 | | 62.10 | | 7 7 00 | |
| | | | | .0 | | 67.74 | 60.33 |
| 000000 | | 77.77 | | | | | |
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| 34,3000 | 405.05 | 101.32 | | 76.20 | | • | • |
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81.65 |
| 74.06
64.05
66.05
66.33
69.43
69.43 |
| 66.57
66.57
66.57
60.12
90.12
91.74
94.63
96.00 |
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94.70 88.38
96.44 90.12
47.20 90.12
47.20 90.12
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| |

^{49, 100, 110, 120,} a.j. CCNT.DIB LEVELS

warlatina angan tentrata 96.

DELV2 = 10.0 0. FLAP = 10. TAMB = 77.0 0.0 CBFAC # 0.0 IN THE A COLO IN O 151 " COTH FOR METER O IPLIFT " O NSCLET " O MARININ TAKEUFF THRUST 0.0 w = 430000. HP = St 397 * 0.0 TFAC * 1.0 CAHT # ٠ -خ 7645 FUG + 225 11FF 0.0 - 1.0 4.00 dacas

| *1-10-10 | 0.5.00 | 1.0830 | - | - | 1.1940 | Λ. | 1.2600 | \sim | 1.3280 | 1.3630 | • | 4 | • | v | | w | • | . • | 4 | 1.7330 | | | | | 0.4000 | 55.4000 | ^ | 62.1000 | 65.1000 | 67.9000 | 70.5000 | 72.4000 | - | ં | å, | 60.2000 | ٠, | i, | | , | | Ġ | . 0 | - | 92.5000 | | 95.1000 | • | 97.4000 | 98.5000 | 100.000 |
|----------|------------|-----------|-----------|--------|--------|-------------|--------|--------|-------------|--------|--------|--------|--------|-----------------|--------|--------|--------|----------|--------|---------------|---|--------|---------|---|------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|----------------------------|----------|---------|--------|---------|---------|----------|--------|---------|--------|---------|---------|---------|
| | 0.4000 | 1.0810 | 1.1.90 | 1.1530 | 1.1860 | 1.22.10 | 1.2530 | 1.2880 | 1.3210 | 1.3550 | 1.3990 | 1.4250 | 0854.1 | 1.4930 | . 52 | 1.3600 | 1.5930 | \$ -6270 | 1.6590 | 1.6920 | • | 16010 | 1.30.00 | | 00000 | 51,8000 | Š | 40 | ~ | S | 68.2300 | 10.6000 | 72.7000 | 74.8303 | 76.7000 | 78.5000 | 0001.00 | 0004.18 | 0001-10 | 0000 | 6 | 2 | 30 | 50 | | E.S. | 93.9000 | 2 | 6.30 | 47.4000 | 05.8 |
| | 0.3000 | 1.0770 | 1-1150 | 1.1440 | 1.1768 | 1.2100 | 1.2430 | 1.2750 | 1.3060 | 1.3400 | 1.1720 | 1-4063 | 1.4400 | 1-4740 | 1.5070 | 1.5400 | 573 | 608 | 639 | \$ | 5 | 2500.0 | 011 | | 0002.0 | | | ~ | 59.8000 | 63.1000 | 66.3030 | 68.4000 | 11.2000 | 13.3000 | 75.2000 | 77.0000 | 0000 | 0007.08 | 0007-18 | 44 4,000 | 65.8000 | 87.000 | A6.2030 | 89.4030 | \$0.0000 | - | 00 | , Li | 3 | 600 | ~ |
| | 0.2000 | 1.0680 | 1.1000 | 1.1320 | 1.1636 | 066:1 | 1.2240 | 1.2540 | 1.2850 | 1.3100 | 1.1470 | 1.3950 | 1.4110 | 1.4450 | 1.4780 | 1.5080 | 540 | 572 | 605 | 1.6380 | 6 | 0.0473 | 900 |) | • | ٠ | | 55.4000 | å, | r, | v. | ສໍ | 10.4000 | 12,4000 | 74.5000 | 76.2000 | 000877 | 0000 | #0.000
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| | 0.1000 | 9 | 7 | 1-1140 | 1.1450 | 1.1710 | 1.4000 | 1.7260 | 4 - 7 5 5 0 | 1.7830 | 1.3110 | 1.3443 | 1.1740 | ಿ | ~ | - 2 | | . • | | 1.5886 | • | 300 | | • | 0.0 | 130 | 51.3000 | \$5.0000 | 58.5300 | 41.4000 | 65.1333 | 67.6000 | 10.1000 | 12.3000 | 14.3000 | 75.5000 | 2004. | F 106 1 . 5 / | | | 0000 | 00000 | 00000 | 38,7000 | 2. | | = | - | 3 | | |
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| NET CHAPTRIC TOTAL TOTAL THRUST SPEED NACH ALPHA PITCH CRAD TEMP T | FL AP = 19. | DEG TEMP | . TT. C | F WIND | 0.0 × | S | 0.0= | | 0.0 | KT/SEC | | | | | | |
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| 34. 35. 7870. 51.5 31333. 174.1 259 ****** ****** 76.9 15.9 34.8 ****** 76.9 15.5 3133. 174.1 15.5 | ROT-10F | • 0 | °C | 6575 | | 1643 | 47 | 24 | * * * * | * | *** | 77.0 | • | 2.4 | ë | 10. |
| 332 344 11739 64-5 31008 177.9 2.65 ************************************ | LOF-35FT | 4 | 35. | 7870. | | 1333 | 4 | 25 | * | * | 并兼价量 | 76.9 | ٠ | ċ | * | .01 |
| 682. 706. 14731. 74.5 30769. 178.9 266. 11.6 18.3 1116 74.6 11.5 18.3 1116 74.6 11.5 18.3 1116 74.6 15.2 99.7 17.7 104.5 30.5931. 17.8 11.6 18.0 1111 72.1 11.5 18.0 111.6 18.0 111.7 12.2 99.7 18.6 30.595. 18.6 27.7 11.6 18.0 111.7 12.9 109 69.5 15.22 99.3 20.6 11.6 17.7 10.0 69.5 15.2 99.3 17.7 10.0 69.5 15.2 99.3 11.6 17.7 10.0 69.5 15.2 99.3 11.5 17.7 10.0 69.5 15.2 99.3 10.3< | 35F-CU | 332. | 34/. | 11739. | | 8001 | 7.7 | 56 | * | * | *** | 75.8 | • | N | * | 10. |
| 1099, 1065, 17777 184,5 30531, 179,8 2.56 11.6 18.1 11.1 17.3 1.526 93 1772, 1772 20117 94,5 30532, 180,7 2.70 11.6 18.1 11.1 17.9 1.522 93 1773, 23377, 104,5 30654, 181,6 2.71 11.6 18.1 11.1 17.9 1.522 93 17.3 23377, 104,5 20654, 181,6 2.71 11.6 17.8 1010 69,7 1.532 94 2.33, 2467, 30734, 124,5 29814, 182,5 2.77 11.6 17.8 1010 69,7 1.532 94 2.33, 2468, 33412, 134,5 29319, 184,4 2.77 11.6 17.6 1010 67,2 1.534 94 2.34, 3460, 34947, 154,5 29814, 185,2 2.87 11.6 17.6 1010 67,2 1.544 94 3955, 4137, 45712, 134,5 29817, 186,2 2.87 11.6 17.7 1010 67,2 1.544 94 4130, 4400, 45712, 134,5 28142, 188,2 2.88 11.6 17.7 1010 6.34 1.547 95 4140, 4780, 52087, 194,5 27915, 188,9 2.88 11.6 17.1 1096 6.28 1.547 95 4140, 4780, 52087, 194,5 27915, 190,6 2.88 11.6 17.1 1095 59,5 1.556 95 4156 | CU +X XXX | 682. | 7.06 | 14751 | | 6910 | 78 | 56 | 11.6 | . | . 116 | 14.6 | ٠ | S | 095 | 10. |
| 1732 17420 20119 944-5 30292 180.7 270 11.6 180.1 11.5 19.9 15.52 93 2040. 2171 2177 22957 104-5 30054 181.6 271 11.6 17.9 1109 69.7 1.524 94 2040. 2171 22957 104-5 29565. 181.6 271 11.6 17.8 100 69.7 1.534 94 271 2.6467 2171 2.6467 2171 2.6467 2171 2.6467 2172 2172 2172 2172 2172 2172 2172 2174 2174 2174 2177 2106 67.2 1.554 94 2712 2172 2174 | XXXX+115 | 620 | 1065. | 17777. | 'n | 0531 | 79 | 92 | 11.6 | 8 | .114 | 73.3 | • | m. | 2075. | 0 |
| 1713. 1771. 23877. 104.5 30054. 181.6 273 11.6 17.9 11.0 17.9 1.09 | SU +XXXX | 1372. | 1420. | | | 3292 | 80 | 77 | 11.6 | 8 | .112 | 72.1 | • | ~ | 056 | 10. |
| 2049. 2121. 26950. 114.5 2984. 182.5 .273 11.6 17.9 .109 69.7 1.534 94 27.3 2.677. 30074. 124.5 29855. 184.5 2.75 11.6 17.7 .106 67.3 1.539 94 27.3 2.688. 3145. 3652. 134.5 2939. 184.4 2.77 11.6 17.7 .106 67.3 1.539 94 3341. 3840. 3456.2 144.5 2939. 184.4 2.77 11.6 17.7 .106 67.3 1.539 94 3451. 3840. 34797. 154.5 28807. 185.3 .278 11.6 17.6 .101 63.9 11.54 94 3451. 3840. 3737. 164.5 28807. 185.3 .286 11.6 17.4 .101 63.9 11.54 95 95 4137. 45712. 174.5 28807. 188.0 .28 11.6 17.4 .101 63.9 11.54 95 95 4137. 45712. 174.5 28827. 188.0 .28 11.6 17.1 .096 60.5 11.54 95 95 4137. 45712. 174.5 28827. 188.0 .286 11.6 17.1 .096 60.5 11.55 95 95 4137. 45712. 174.5 2882. 11.6 17.1 .096 60.5 11.55 95 95 95 95 95 95 95 95 95 95 95 95 9 | GU+XXXX | 1713. | 1773. | 23877. | | 0054 | - | 27 | - | * | . 111 | 6.01 | ٠ | ~ ∩ | 036 | i
i |
| 2.33. 2467. 30034. 124.5 29555. 183.5 .775 11.6 17.8 .107 68.5 1.537 94 2712. 2608. 33142. 1144.5 29555. 183.3 .777 116.6 17.3 11.59 194.6 .104 66.2 1.54.9 94 3361. 3460. 3477. 164.5 28839. 186.2 .28 11.6 17.5 .104 66.2 1.54.9 94 3965. 4180. 4860. 186.2 .28 11.6 17.5 .104 66.2 1.54.9 94 3965. 4181. 418.2 288.7 11.6 17.1 .099 62.8 1.54.9 94 4914. 4780. 286.2 186.2 2785. 188.9 .28 11.6 17.1 .099 62.8 1.54.9 94 4914. 4780. 286.2 187.2 188.0 .28 11.6 17.2 .098 61.6 <t< td=""><td>SU +XXXX</td><td>2049.</td><td>2121.</td><td>26950.</td><td></td><td>9814</td><td>2</td><td>2.7</td><td>-</td><td>7</td><td>• 109</td><td>69.1</td><td></td><td>4</td><td>5</td><td>.01</td></t<> | SU +XXXX | 2049. | 2121. | 26950. | | 9814 | 2 | 2.7 | - | 7 | • 109 | 69.1 | | 4 | 5 | .01 |
| 2712. 2808. 33142. 134.5 29319. 184.4 -277 11.6 17.7 -106 67.3 1.539 94 3318. 3146. 3622. 144.5 29319. 186.3 278 11.6 17.6 -104 66.2 1.54.2 94 346. 3410. 4757. 164.5 28604. 187.1 22 11.6 17.6 -101 65.9 1.54.7 94 4305. 4137. 164.5 28604. 187.1 22 11.6 17.2 -099 62.8 1.54.9 94 4306. 4137. 11.6 17.2 -099 62.8 1.54.9 95 4516. 4780. 52087. 194.5 27917. 11.6 17.1 099 62.8 1.54.9 94 5218. 5717. 6107. 27472. 191.5 229 11.6 17.1 099 62.8 1.554.9 95 5518. 5717. 6107.< | GU+XXXX | 2:33. | 2467. | 30035 | ĸ | 9565 | 83 | 7.7 | - | 7 | • 107 | 68.5 | ٠ | 94.25 | 766 | 01 |
| 3036. 3146. 36262. 144.5 20077. 185.3 .278 11.6 17.6 .104 66.2 1.544 94 351. 3480. 454.5 164.5 2604 186.2 2.28 11.6 17.5 .102 65.0 1.544 94 351. 4267. 164.5 28040. 188.0 .28 11.6 17.2 .009 62.8 1.547 94 4506. 4460. 48042. 184.5 281.2 11.6 17.2 .009 62.8 1.549 95 4014. 460. 5207. 104.5 27015. 189.7 .286 11.6 17.1 .095 62.8 1.554 95 4014. 5608. 5207. 2762. 191.5 .290 11.6 17.1 .095 62.8 1.554 95 4010. 5207. 276.5 276.2 191.5 .290 11.6 17.1 .095 65.6 1.554 95 <td>CO +XXXX</td> <td>2712.</td> <td>2808</td> <td>3143</td> <td>•</td> <td>9319</td> <td>4</td> <td>27</td> <td>_</td> <td>7</td> <td>901.</td> <td>67.3</td> <td>٠</td> <td>64.46</td> <td>972</td> <td>10.</td> | CO +XXXX | 2712. | 2808 | 3143 | • | 9319 | 4 | 27 | _ | 7 | 901. | 67.3 | ٠ | 64.46 | 972 | 10. |
| 3561. 3480. 39397. 154.5 28839. 186.7 226 11.6 17.5 102 65.0 1.544 94 3957. 3810. 45547. 164.5 28604. 1871. 28 11.6 17.4 101 63.9 1.547 95 4906. 4610. 48872. 184.5 28142. 188.9 28.1 11.6 17.4 099 62.8 1.547 95 4014. 4780. 52087. 194.5 27915. 189.7 28.8 11.6 17.1 096 62.8 1.554 95 5220. 52087. 27045. 191.5 290 11.6 17.1 096 62.8 1.554 95 5220. 52087. 27055. 197.4 291 11.6 17.1 096 65.8 1.559 195 5218. 5518. 2701. 197.2 291 11.6 17.1 096 65.8 1.559 1.559 1.559 </td <td>GU +XXXX</td> <td>3036</td> <td>3146.</td> <td>36262.</td> <td>ω.</td> <td>7106</td> <td>r.</td> <td>27</td> <td>_</td> <td>-</td> <td>. 104</td> <td>64.2</td> <td>•</td> <td>94 4</td> <td>95</td> <td>0.</td> | GU +XXXX | 3036 | 3146. | 36262. | ω. | 7106 | r. | 27 | _ | - | . 104 | 64.2 | • | 94 4 | 95 | 0. |
| 3679. 3810. 42547. 164.5 28604. 1871. 28 11.6 17.4 -101 63.9 1.547 95 4936. 4460. 48842. 188.0 28 11.6 17.3 -099 62.8 1.554 95 4514. 4780. 52087. 184.5 27915. 189.7 -286 11.6 17.1 -096 60.5 1.554 95 4919. 508. 52087. 274.5 27422. 190.6 -28 11.6 17.1 -096 60.5 1.554 95 5210. 5408. 574.5 191.5 -290 11.6 17.0 -093 59.5 1.554 95 5210. 5408. 1772. 191.5 -290 11.6 17.0 -093 59.5 1.554 95 5112. 6022. 274.5 27613. 193.3 -293 11.6 17.0 -093 59.5 1.554 1.569 96 | GI + X X X X | 3361. | 3480 | 39397. | ۰, | 8839 | 3 | 28 | | ~ | 701 | 65.0 | ٠ | 66.46 | 929 | 10. |
| 3995. 4137. 45712. 174.5 28372. 188.0 2.8 11.6 17.2 .099 62.8 1.549 95 4306. 4460. 48892. 184.5 28142. 188.9 28 11.6 17.2 .099 61.6 1.551 95 4919. 5060. 52677. 2745. 191.5 220 11.6 17.1 .095 59.5 1.554 95 5220. 5408. 5852. 274.5 2725. 191.5 2.29 11.6 17.0 .093 58.4 1.556 96 5210. 5610. 2725. 191.5 2.29 11.6 17.0 .093 58.4 1.556 96 5210. 524.5 274.5 2725. 193.3 293 11.6 16.9 .090 56.5 15.5 96 11.6 17.1 .095 59.5 11.5 15.5 11.5 11.5 11.5 11.5 11.5 11.5 11.5 | Cu+xxxx | 3575 | 3810. | 42547 | it. | 8604 | 7 | 2 | ~ | ~ | 101. | 63.9 | - | 95.24 | 1907. | 0. |
| 4366. 4460. 48892. 184.5 28142. 188.9 28.5 11.6 17.1 098 61.6 1.551 95 4614. 4780. 52087. 194.5 27615. 189.7 28.6 11.6 17.1 098 61.6 1.554 95 4514. 5408. 5520. 57437. 191.5 290.1 11.6 17.1 098 61.6 1558 96 5220. 5408. 5852. 214.5 27472. 191.5 290.1 17.1 099 61.6 17.0 093 59.4 1558 96 5312. 6622. 58016. 27256. 197.4 293 11.6 16.8 090 56.5 1.558 96 6390. 6622. 71569. 26412. 195.8 294 11.6 16.8 090 56.2 1.558 96 6390. 6622. 7466. 26412. 195.8 294 11.6 16.6 081 <td>XXXX+D9</td> <td>3668</td> <td>4137.</td> <td>45712.</td> <td>۰.</td> <td>8372</td> <td>œ</td> <td>\sim</td> <td>-</td> <td>~</td> <td>660.</td> <td>62.8</td> <td>1.549</td> <td>95.50</td> <td>886</td> <td>10.</td> | XXXX+D9 | 3668 | 4137. | 45712. | ۰. | 8372 | œ | \sim | - | ~ | 660. | 62.8 | 1.549 | 95.50 | 886 | 10. |
| 4614. 4780. 52087. 194.5 27915. 189.7 -286 11.6 17.1 .096 60.5 1.554 95 4919. 5036. 55297. 276.5 2769. .288 11.6 17.1 .095 59.5 1.556 96 5218. 5622. 274.5 2772. 191.5 2291 11.6 16.9 .091 57.3 1.558 96 5312. 6022. 65016. 234.5 27043. 193.3 293 11.6 16.9 .091 57.3 1.569 991 6103. 6324. 65016. 234.5 26041. 195.8 11.6 16.7 .089 55.2 1.563 97 630. 6422. 7166. 26412. 195.8 11.6 16.7 .089 55.2 1.563 97 6434. 7267. 7486. 26412. 195.8 11.6 16.6 .084 55.2 1.563 1.563 1.564 | GU +XXXX | 4306. | 4440. | 48892. | 'n | 8142 | 30 | | ~ | ~ | 360 • | 61.6 | ٠ | 95.74 | | |
| 4919. 5696. 55297. 206.5 190.6 -288 11.6 17.1 -095 59.5 1-556 96 5220. 5408. 58522. 214.5 27472. 191.5 -290 11.6 16.9 -093 58.4 1-558 96 5218. 5717. 61761. 224.5 2765. 192.4 293 11.6 16.9 -091 56.3 1-558 96 6103. 6324. 68785. 244.5 26831. 194.1 -295 11.6 16.8 -090 56.3 1-563 96 6103. 6822. 71569. 254.5 26612. 195.0 -296 11.6 16.8 -090 56.3 1-563 96 6390. 6674. 670. 296 11.6 16.8 090 56.2 1-563 96 6390. 6674. 7207 11.6 16.6 084 52.2 1-564 1-564 1-564 1-564 1-56 | GU +x x x x | 4614. | 4 780. | 52087. | 'n | 2162 | C | | ~ | 7 | 960* | 60.5 | ٠ | 66.56 | 1843. | <u>.</u> |
| 5220. 5408. 58522. 214.5 27472. 191.5 -290 11.6 17.0 -093 58.4 1-558 96 5518. 5717. 61761. 224.5 27256. 192.4 -291 11.6 16.9 -091 57.3 1-558 96 6103. 6322. 6381. 194.1 -293 11.6 16.8 -090 56.3 1.563 96.7 1.089 56.3 1.563 96.7 1.089 56.3 1.563 96.7 1.563 96.7 1.563 97.2 1.563 97.2 1.563 97.2 1.564 97.2 1.567 97 97.2 1.566 98.5 1.567 97 1.569 97 1.567 97 1.567 97 1.567 97 1.573 98 1.567 97 1.573 98 1.573 98 1.573 98 1.574 1.573 98 1.574 1.573 98 1.574 1.578 98 1.574 <td>C'J +X XXX</td> <td>4919.</td> <td>9635</td> <td>55297.</td> <td>~</td> <td>76.92</td> <td>0</td> <td></td> <td>-</td> <td>~</td> <td>• 095</td> <td>59.5</td> <td>٠</td> <td>96.24</td> <td>825</td> <td>01</td> | C'J +X XXX | 4919. | 9635 | 55297. | ~ | 76.92 | 0 | | - | ~ | • 095 | 59.5 | ٠ | 96.24 | 825 | 01 |
| 5518. 5717. 61761. 224.5 27256. 192.4 -291 11.6 16.9 -091 57.3 1.561 96 5312. 6022. 65016. 234.5 27043. 193.3 -293 11.6 16.9 -090 56.3 1.563 96 6103. 6524. 7686. 264.5 26619. 195.0 11.6 16.4 -089 55.2 1.563 97 6390. 6574. 7686. 264.5 26619. 195.0 11.6 16.4 08 55.2 1.567 97 6574. 7207. 78178. 274.5 26212. 196.7 -299 11.6 16.5 084 52.2 1.571 97 7231. 7496. 284.5 26016. 197.5 -30 11.6 16.4 -084 52.2 1.571 97 7776. 84846. 294.5 25876. 199.2 -304 11.6 16.4 -084 50.2 <t< td=""><td>CHAXXXX</td><td>5220.</td><td>5408</td><td>58522.</td><td>'n</td><td>1472</td><td>1</td><td></td><td>-</td><td>~</td><td>.093</td><td>58.4</td><td>•</td><td>64-96</td><td>1831.</td><td>0</td></t<> | CHAXXXX | 5220. | 5408 | 58522. | 'n | 1472 | 1 | | - | ~ | .093 | 58.4 | • | 64-96 | 1831. | 0 |
| \$312. 6022. 65016. 234.5 27043. 193.3 .293 11.6 16.8 .090 56.3 1.563 96 6103. 6524. 68285. 244.5 26831. 194.1 .295 11.6 16.6 .087 55.2 1.565 97 6390. 6622. 71568. 254.5 26619. 195.0 .296 11.6 16.6 .087 55.2 1.565 97 6474. 65116. 74866. 264.5 26619. 195.0 .298 11.6 16.6 .087 53.2 1.569 97 6454. 7201. 78178. 274.5 26212. 195.8 .298 11.6 16.5 .084 52.2 1.569 97 7231. 7780. 84846. 294.5 25826. 198.4 .302 11.6 16.4 .083 51.2 1.578 98 7776. 8061. 88201. 304.5 25641. 199.2 .304 11.6 16.2 .089 69.3 1.578 98 8041. 8339. 91570. 314.5 25461. 200.0 .304 11.6 16.2 .079 46.3 1.580 99 8050. 88201. 304.5 2586. 200.9 .307 11.6 16.1 .078 47.4 1.582 99 8070. 88878. 9155. 101762. 344.5 24949. 202.5 .310 11.6 16.0 .077 46.5 1.584 99 9084. 108626. 364.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 9084. 108626. 364.5 24478. 205.0 .315 11.6 15.9 .077 42.8 1.593 100 | CHEXXXX | 5518. | 5717. | 61761. | ı۸ | 7256 | \sim | | → | 9 | .091 | 57.3 | ٠ | 96.74 | 1781. | 0 |
| 6103. 6324. 68285. 244.5 26831. 194.1 .295 11.6 16.7 .089 55.2 1.565 97 6390. 6622. 71568. 254.5 26619. 195.0 .296 11.6 16.6 .087 54.2 1.569 97 6452. 6516. 74866. 264.5 26412. 195.9 .296 11.6 16.6 .087 54.2 1.569 97 6554. 7207. 78178. 274.5 26612. 195.7 .299 11.6 16.5 .084 52.2 1.569 97 7231. 7780. 84846. 294.5 26016. 197.5 .301 11.6 16.4 .083 51.2 1.573 98 7776. 8061. 88201. 304.5 25641. 199.2 .304 11.6 16.2 .082 50.2 1.576 98 8041. 8339. 91570. 314.5 25641. 199.2 .304 11.6 16.2 .079 46.3 1.580 99 88730. 1816. 344.5 25641. 201.7 .309 11.6 16.1 .078 47.4 1.582 99 88770. 1886. 304.5 24949. 202.5 .310 11.6 16.0 .077 46.5 1.584 99 93 88.7 .354.5 24949. 202.5 .310 11.6 16.0 .077 46.5 1.584 99 93 8. 108626. 364.5 24788. 203.3 .312 11.6 15.9 .077 44.6 1.589 99 93 88. 108626. 364.5 24478. 205.0 .315 11.6 15.9 .077 42.8 1.593 100 | GU+XXXX | 5312. | 6.022 · | 65016. | | 7043 | • | | ~ | 9 | 060 | 56.3 | *1 | 96.99 | 763 | 0. |
| 6390. 6622. 71569. 254.5 26619. 195.0 .296 11.6 16.6 .087 54.2 1.567 97 6674. 6516. 74866. 264.5 26412. 195.8 .298 11.6 16.6 .086 53.2 1.569 97 6516. 74866. 264.5 26412. 195.8 .299 11.6 16.5 .086 53.2 1.569 97 6317. 7207. 78178. 274.5 26212. 196.7 .302 11.6 16.5 .088 51.2 1.571 97 7231. 7760. 84846. 294.5 25826. 197.5 .301 11.6 16.4 .083 51.2 1.573 98 7776. 8061. 88201. 304.5 25641. 199.2 .304 11.6 16.2 .089 69.3 1.576 98 8041. 8339. 91570. 314.5 25461. 200.0 .306 11.6 16.2 .079 48.3 1.578 98 8139. 8614. 94454. 22586. 201.9 .307 11.6 16.1 .078 47.4 1.582 99 88270. 8838. 91570. 314.5 25449. 201.7 .309 11.6 16.0 .077 46.5 1.584 99 90.84. 104626. 364.5 24478. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 90.88. 104626. 364.5 24478. 205.0 .315 11.6 15.9 .077 42.8 1.593 100 | CO +x x x x | 6103. | 6324. | 68285. | | 6831 | 4 | | _ | Q | 680, | 22.5 | ٠ | 47.16 | 1759. | 2 : |
| 6674. 6516. 74866. 264.5 26412. 195.8 .298 11.6 16.6 086 53.2 1.569 97 6954. 7207. 78178. 274.5 26212. 196.7 .299 11.6 16.5 .084 52.2 1.573 98 7231. 7495. 81505. 284.5 26016. 197.5 .301 11.6 16.4 .083 51.2 1.573 98 7756. 86846. 294.5 25826. 198.4 .302 11.6 16.4 .083 51.2 1.576 98 8041. 8539. 91570. 314.5 25641. 199.2 .304 11.6 16.2 .079 48.3 1.578 98 8041. 8539. 91570. 314.5 25641. 199.2 .304 11.6 16.2 .079 48.3 1.578 98 8041. 8539. 91570. 314.5 25286. 200.9 .307 11.6 16.1 .078 47.4 1.582 99 88.70. 8886. 99351. 334.5 25115. 201.7 .309 11.6 16.0 .077 46.5 1.584 99 90.84. 105187. 354.5 24788. 203.3 .312 11.6 16.0 .076 45.5 1.584 99 90.84. 105187. 354.5 24788. 203.3 .312 11.6 15.8 .077 44.6 1.589 99 90.88. 105187. 354.5 24478. 205.0 .315 11.6 15.8 .077 42.8 1.593 100 | CU +XXXX | 6390 | 6622. | 71568. | | 6199 | S | | ~ | • | . 087 | 54.2 | ٠ | 55.76 | 718 | 2 |
| 6954, 7207, 78178, 274.5 26212, 196.7 .299 11.6 16.5 .084 52.2 .571 97 7231, 7455, 81505, 284.5 26016, 197.5 .301 11.6 16.4 .083 51.2 1.573 98 7505, 7760, 84846, 294.5 25826, 198.4 .302 11.6 16.4 .083 51.2 1.576 98 7776, 8021, 304.5 25641, 199.2 .304 11.6 16.2 .079 48.3 1.578 98 80.4 8139, 91570, 314.5 25286, 200.0 .306 11.6 16.2 .079 48.3 1.578 98 8059, 8613, 94954, 324.5 25286, 200.9 .307 11.6 16.1 .078 47.4 1.582 99 8879, 8613, 101762, 344.5 25286, 201.7 .309 11.6 16.0 .077 46.5 1.584 99 90.84, 105187, 354.5 24788, 203.3 .312 11.6 15.9 .074 44.6 1.589 99 90.84, 108626, 364.5 24788, 203.3 .312 11.6 15.9 .074 44.6 1.589 99 90.884, 108626, 364.5 24478, 205.0 1.313 11.6 15.8 .073 43.7 1.591 100 | GU +X X X X | 6674. | 6516. | 74866. | Δ | 6412 | Š | | _ | 9 | 980 | 53.2 | • | 97.14 | 2 | 01 |
| 7231. 7495. 81505. 284.5 26016. 197.5 .301 11.6 16.4 .083 51.2 1.573 98 7505. 7780. 84846. 294.5 25826. 198.4 .302 11.6 16.3 .082 50.2 1.576 98 7776. 8061. 88201. 304.5 25641. 199.2 .304 11.6 16.2 .080 49.3 1.578 98 8043. 8339. 91570. 314.5 25461. 200.0 .306 11.6 16.2 .079 46.3 1.580 98 81043. 8614. 94954. 324.5 25866. 200.9 .307 11.6 16.1 .078 47.4 1.582 99 81043. 8615. 101762. 344.5 25115. 201.7 .309 11.6 16.0 .077 46.5 1.584 99 9187. 9421. 105187. 354.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 9188. 9084. 108626. 364.5 24788. 203.3 .315 11.6 15.8 .073 43.7 1.591 100 | CU +XXXX | 6954. | 7207 | 78178. | S | 6212 | ç | | _ | ٠ | ₹80• | 55.5 | ٠ | 61.99 | 1 9 | 0 |
| 7505. 7780. 84846. 294.5 25826. 198.4 .302 11.6 16.3 .082 50.2 1.576 98 7776. 8061. 88201. 304.5 25641. 199.2 .304 11.6 16.2 .080 49.3 1.578 98 8041. 8339. 91570. 314.5 25641. 199.2 .304 11.6 16.2 .079 46.3 1.580 98 8041. 8614. 94954. 324.5 2586. 200.0 .306 11.6 16.1 .079 46.3 1.580 98 8570. 8828. 9155. 101762. 344.5 25115. 201.7 .309 11.6 16.0 .077 46.5 1.584 99 99.84. 9155. 101762. 344.5 24949. 202.5 .310 11.6 16.0 .076 45.5 1.584 99 99.84. 105187. 354.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 99.84. 102626. 364.5 24478. 205.0 .315 11.6 15.8 .073 43.7 1.591 100 9588. 1.593 100 | GU +XXXX | 7231. | 7495. | 81505. | ķ | 9109 | ~ | • | ~ | 9 | • 083 | 51.2 | ٠ | 98.24 | 1658. | 0. |
| 7776. 8061. 88201. 304.5 25641. 199.2 .304 11.6 16.2 .080 49.3 1.578 98 8041. 8339. 91570. 314.5 25461. 200.0 .306 11.6 16.2 .079 48.3 1.580 98 8309. 8614. 94454. 324.5 25286. 200.9 .307 11.6 16.1 .078 47.4 1.582 99 8530. 8345. 94551. 334.5 25115. 201.7 .309 11.6 16.0 .077 46.5 1.584 99 90.84. 9421. 105187. 354.5 24949. 202.5 .310 11.6 16.0 .076 45.5 1.584 99 90.84. 9421. 105187. 354.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 90.88. 108626. 364.5 24478. 205.0 .315 11.6 15.8 .073 43.7 1.591 100 9588. | CU +XXXX | 7505. | 7 /RO. | 84846. | | 5826 | α | • | _ | ċ | .082 | 50.5 | ٠ | ∞ . | œ | <u>.</u> |
| 8041. 8339. 91570. 314.5 25461. 200.0 .306 11.6 16.2 .079 46.3 1.580 98 8309. 8614. 94954. 324.5 25286. 200.9 .307 11.6 16.1 .078 47.4 1.582 99 8570. 8856. 98351. 334.5 25115. 201.7 .309 11.6 16.0 .077 46.5 1.584 99 8827. 9155. 101762. 344.5 24949. 202.5 .310 11.6 16.0 .076 45.5 1.584 99 9.84. 9421. 105187. 354.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 9338. 9684. 108626. 364.5 24478. 205.0 .315 11.6 15.8 .073 43.7 1.591 100 | SU +x x x | 7776. | 8061. | 88201. | ٠, | 5641 | 66 | • | | 9 | . 380 | 49.3 | ٠ | œ | 0 | |
| 8309, 8614, 94954, 324,5 25286, 200,9 307 11.6 16.1 ,078 47.4 1,582 99 8570, R886, 98351, 334,5 25115, 201,7 ,309 11.6 16.0 ,077 46.5 1,584 99 88270, R886, 9455, 101762, 344,5 24949, 202,5 ,310 11.6 16.0 ,076 45.5 1,584 99 9,084, 9421, 105187, 354,5 24788, 203,3 ,312 11.6 15.9 ,074 44.6 1,589 99 9338, 9684, 108626, 364,5 24631, 204,1 ,313 11.6 15.8 ,073 43.7 1,591 100 9588, 174,5 24478, 205,0 ,315 11.6 15.8 ,072 42.8 1,593 100 | XXXX4 Ci | 8043 | 8339. | 91570. | | 5461 | 00 | • | _ | ç | .079 | . | | ∞, | _ | 01 |
| (XXX 8570, F886, 98351, 334,5 25115, 201,7 ,309 11.6 16.0 .077 46.5 1.584 99 (XXX 8828, 9155, 101762, 344,5 24949, 202,5 .310 11.6 16.0 .076 45.5 1.586 99 (XXX 9.084, 9421, 105187, 354.5 24788, 203.3 .312 11.6 15.9 .074 44.6 1.589 99 (XXX 9338, 9684, 108626, 364.5 24631, 204.1 .313 11.6 15.8 .073 43.7 1.591 100 (XXX 95588, 7945, 112078, 374.5 24478, 205.0 .315 11.6 15.8 .072 42.8 1.593 100 | SU +XXXX | 8309. | 8614. | 94954 | 'n | 5286 | 9 | • | 11.6 | 16.1 | . 078 | 7 | ٠ | | 1583. | .01 |
| <pre>KXXX 8828. 9155. 101762. 344.5 24949. 202.5 .310 11.6 16.0 .076 45.5 1.586 99 KXXX 9.084. 9421. 105187. 354.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99 KXXX 9338. 9684. 108626. 364.5 24631. 204.1 .313 11.6 15.8 .073 43.7 1.591 100 KXXX 9588. C945. 112078. 374.5 24478. 205.0 .315 11.6 15.8 .072 42.8 1.593 100</pre> | GU +X X X X | 8570. | H 886. | 98351. | ıc. | 5115 | ö | • | 11.6 | 16.0 | .077 | Ġ | ٠ | S. | ø | .0 |
| XXXX 9.384. 9421. 105187. 354.5 24788. 203.3 .312 11.6 15.9 .074 44.6 1.589 99
XXXX 9338. 9684. 108626. 364.5 24631. 204.1 .313 11.6 15.8 .073 43.7 1.591 100
XXXX 9588. 0755. 112078. 374.5 24478. 205.0 .315 11.6 15.8 .072 42.8 1.593 100 | GU +X X X X | 8828. | 9155. | | ĸ | 6565 | 02 | • | 11.6 | 16.0 | .076 | Š | 1.586 | Ġ. | 1549. | 10. |
| (XXX 9338, 9684, 108626, 364,5 24631, 204,1 ,313 11,6 15,8 ,073 43,7 1,591 100 (XXX 9588, 1945, 112078, 374,5 24478, 205,0 ,315 11,6 15,8 ,072 42,8 1,593 100 | XXXX+115 | 9384 | | 105187. | 70 | 4788. | 93 | ٠ | 11.6 | 15.9 | • 074 | 4. | | 99.95 | 32 | 10. |
| (XXX 9588, c945, 112078, 374,5 24478, 205.4 .315 11.6 15.8 .072 42.8 1.593 100 | CH+XXXX | 933B. | | 108626 | 'n | 4631 | 9 | ٠ | 11.6 | 15.8 | .073 | ě | | 8 | - | 0.1 |
| | CO +X X X X | 9.588 | | 0 | ı, | 4478 | 0.5 | ٠ | • | • | .072 | 2 | 59 | 8 | 00 | 10. |
| | | > | | | ` | : |) | • | • | | | | | | | |

L-1011-1 / RB211-22B EFFECTIVE PERCFIVED NOISE LEVEL SFA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKEOFF WFIGHT (430,000LB.), 10 DEG. FLAPS, TAKEOFF THRUST

| | 15 | S. | 85.02 | - | - | • | 4 . 2 | 93.18 | 93.02 | 92.09 | 91.02 | 90.88 | 10.06 | ċ | 8 | 8 | ~ | .2 | o | ŝ | 85.66 | ; | ÷ | ţ. | 82.65 | 3 | 83.05 | 2 | Λı. | 81.96 | | | 0 | 80.31 | 80.13 | 19.79 | • | • 2 | 78.82 | 'n |
|------------|-------------|---------------------------------------|-------|--------|--------|--------|--------|----------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
| | ddx | 5515. | 515 | 7870. | 11739. | 14751. | 17777. | 20 H 19. | 21280. | 23877. | 26950. | 27363. | 30039. | 33143. | 33440. | 36262. | 39397. | 39520. | 42547. | 45600. | 45/12. | 48892. | 51680. | 52087. | 55297. | 57760. | 58522. | 61761. | 63840. | 65016. | 'n | 69920. | 156 | 98 | 8 | 78178. | 150 | 208 | | 816 |
| | œ | 1520. | 1520. | 1520. | 1558. | 1676. | 1856. | 2080. | 2117. | 2335. | 2610. | 2647. | 2897. | 3193. | 3221. | 3494. | 3797. | 3809. | 4102. | 4397. | 4408 | 4712. | 4977. | 5016. | 5318. | 5547. | 5616. | 5915. | 6104. | 6211. | 6504. | 6648. | 6794. | 7081. | 7179. | 7366. | 7648. | 1696. | 7927. | 8199. |
| | | · · · · · · · · · · · · · · · · · · · | **** | 118.40 | 106.19 | 101.79 | 98.19 | 96.54 | 96.25 | 94.65 | 92.95 | 92.75 | 91.52 | 90.27 | 90.16 | 91.68 | 88.12 | 88.08 | 87.17 | 86.33 | 86.30 | 85.50 | 84.85 | ~ | 84.08 | Š | 4 | æ | 82.47 | 7 | ۲ | 4 | | 9 | 4 | 80.06 | 'n | | 0 | ٠, |
| PATH | u X u | | 6575. | 7870. | 11739. | 14751. | 17777. | 20819. | 21280. | 23877. | 26950. | 27360. | 30039. | 33143. | 33440. | 36262. | 39397. | 39520. | 42547. | 45600. | 45712. | 43892. | 51680. | 52087. | 55297. | 57760. | 58522. | 61761. | 63840. | 65016. | 68285. | .02669 | _ | 74866. | 76000. | 78178. | 81505. | ~ | | 88160. |
| 1 H5 1 | TAT THE TAT | 52.41 | 92.41 | 52.43 | 95.66 | 95.54 | 93.21 | 93.48 | 93.52 | 93.75 | 10.46 | 40.04 | 94.25 | 64.46 | 94.52 | 44.14 | 66.45 | 95.00 | 42.55 | 65.49 | 95.50 | 95.74 | 96.56 | 55.49 | 42.96 | 46.43 | .+- | 41.96 | 06.95 | 66.96 | \sim | ~ | .* | . 7 | 20 | 65.16 | 5 | 2. | 9.4 | - |
| ALCING THE | | ~ | 167.1 | 174.1 | 177.9 | 178.9 | 179.8 | 180.7 | 183.8 | 8 | 182.5 | 187.7 | 183.5 | | 184.4 | 185.3 | 186.2 | 186.2 | 187.1 | 187.9 | 188.0 | 188.9 | 189.6 | 189.7 | 190.6 | 191.3 | 191.5 | 192.4 | 192.9 | 193.3 | | 194.5 | | 195.8 | 1 - 96 1 | 156.7 | 197.5 | 197.7 | 198.4 | 199.2 |
| LEVELS | 1 | . 0 | • | 35. | 344. | 706. | 1065. | 1420. | 1474. | 1773. | 2121. | 2167. | 2467. | 2308. | 2840. | 3146. | 3480. | 493 | 3810. | 4126. | 4137. | 4460. | 4739. | 4780. | 5076. | 5334. | 4.08 | 5717. | 5912. | 6022. | 6324. | 6472. | 6622. | 69169 | 7016. | 2 | 7495. | 44 | 7780. | 8057. |
| NOTSE | > | 5515. | 6575. | 7870. | 11739. | 14751. | 17777. | 20819. | 212:10. | 235.17. | 26950. | 2/360. | 30039 | 33143. | 33440. | 36262. | 39 397. | 39570. | 42547. | 45600. | 45712. | 48892. | 51680. | 52C87. | 55297. | 57760. | 58522. | 61761. | 63840. | £5016. | 68285. | 69920 | 71566. | 74866. | 75000. | 78178. | 81505. | 82030. | 64846. | 89160. |

47-40-70

PAGE

L-1011-1 / RB211-228 FFFECTIVE PERCEIVED NOISE LEVEL SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKEOFF WEIGHT (430,0000L8.), 10 DFG. FLAPS, TAKEOFF THRUST

80. FPND8 EFFECTIVE PERCEIVED NOISE LEVEL

| > | 3 | > | A A T SHI ST GO S | 10 | 60 | a | DICTANCE | 1/2 MINTH | ADEA |
|--------|-------|--------|-------------------|--------|-------|-------|----------|-----------|-------|
| 5515. | : | 156.7 | 92.41 | 8280. | 2364 | 2364. | 5515 | 2364 | 0-0 |
| 6575. | • | 167.1 | 92.41 | 7768. | 2218. | 2218. | 6575 | 2218. | 0-17 |
| 7870. | 35. | 174.1 | 92.43 | 7451. | 2128. | 2128. | 7870. | 2127. | 0.38 |
| 11739. | 344. | 177.9 | 95.66 | 7280. | 2079. | 3530. | 11739. | 3514. | 1.16 |
| 14751. | 706. | 178.9 | 95.94 | 7228. | 2065. | 4032. | 14751. | 3970. | 1.97 |
| 17777. | 1065. | 179.8 | 93.21 | 717. | 2051. | 4415. | 17777. | 4284. | 2.86 |
| 20819. | 1420. | 180.7 | 93.48 | · | 2037. | 4761. | 20819. | 4544. | 3.83 |
| 21280. | 1474. | 1 80.8 | 93.52 | 735.50 | 2035. | 4812. | 21280. | 4581. | 3.98 |
| 23877. | 1173. | 181.6 | 93.75 | 7077. | 2024. | 5103, | 23877. | 4785. | 4.85 |
| 26950. | 2121. | 187.5 | 94.01 | 7028. | 2010. | 5457. | 26950. | 5028. | 5.93 |
| 27360. | 2167。 | 182.7 | 64.04 | 7022. | 2003. | 5505 | 27360. | 5061. | 6.08 |
| 30036 | 2467. | 183.5 | 94.25 | 6981. | 1997. | 5830. | 30039 | 5282. | 7.07 |
| 23143. | 2808. | 184.4 | 67.76 | 6935. | 1984. | 6221. | 33143. | 5551. | 8.28 |
| 33440. | 2840. | 184.4 | 94.52 | 6930. | 1983. | 6259. | 33440. | 5577. | 8.40 |
| 36262. | 3146. | 185.3 | 42-46 | 6889. | 1972. | 6617. | 36.262. | 5821. | 9.55 |
| 39397. | 3480. | 186.2 | 66. 46 | 6843. | 1959. | 6843. | 39397. | 5892. | 10.87 |
| 39520. | 3493. | 186.2 | 65.00 | 6841. | 1959. | 6841. | 39520. | 5882 | 10.92 |
| 42547. | 3810. | 187.1 | 95.24 | 6798. | 1947. | 6798. | 42547. | 5630. | 12.17 |
| 45600. | 4126. | 187.9 | 65.49 | 6755. | 1935. | 6755. | 45600. | 5349. | 13.37 |
| 45712. | 4137. | 186.0 | 55.50 | 6753. | 1935. | 6753. | 45712. | 5338. | 13.42 |
| 48842. | *0955 | 188.9 | 95.74 | 6710. | 1922. | 6710. | 48892. | 5012. | 14.60 |
| 51680. | 4739. | 189.6 | 36.55 | 6672. | 1912. | 6672. | 51680. | *969* | 15.57 |
| 52087. | 4780. | 189.7 | 65.56 | 6666. | 1911. | 6666. | 52087. | 4647. | 15.70 |
| 55257. | 5096. | 19).6 | 96.24 | 6624. | 1899. | 6624. | 55297. | 4232. | 16.73 |
| 57760. | 5334. | 191.3 | 26.43 | •1659 | 1890. | 6541. | 57760. | 3872. | 17.44 |
| 58522. | 5408. | 191.5 | 64.95 | 6581. | 1887. | 6581. | 58522. | 3751. | 17.65 |
| 61761. | 5717. | 192.4 | 96.74 | 6540. | 1876. | .0459 | 61761. | 3176. | 18.46 |
| 63840. | 5912. | 192.9 | 06.96 | 6513. | 1869. | 6513. | 63840. | 2734. | 18.90 |
| .91053 | 6722. | 153.3 | 66.96 | •6649 | 1864. | •6649 | 65016. | 2443. | 19.12 |
| 68285. | 6324. | 104.1 | 97.24 | 6458. | 1853. | 6458. | 68285. | 1311. | 19.56 |
| •02659 | £472. | 194.5 | 97.37 | 6438. | 1848. | 6438. | .16569 | • | 19.62 |

07-04-74

PAGE

1-1011-1 / RB211-220 FFFECTIVE PFRCFIVED NOISE LEVEL SFA LFVEL, 77 DFG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKEDFF WEIGHT (430,000L3.), 10 DEG. FLAPS, TAKEUFF THRUST

90. EPNDR FFFECTIVE PERCEIVED NOIST LEVEL

| | AREA | 0.0 | 80.0 | 61.0 | 0.61 | 1.01 | 1.46 | 1.96 | 2.03 | 2.44 | 2.86 | 2.91 | 3.17 | 3.25 |
|-----|----------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| | 1/2 WIDTH | 11011 | 1033. | 1291. | 1724. | 1965. | 2198. | 2358. | 2322. | 2081. | 1693. | 1630. | 1088. | • |
| | DISTANCE | 5515. | 6575. | 7870. | 11739. | 14751. | 17777. | 20819. | 21280. | 23877. | 26950. | 27360. | 30039. | 32020. |
| | œ | 1101. | 1033. | 1291. | 1758. | 2088. | 2443. | 2753. | 2750. | 2733. | 2714. | 2712. | 2696. | 26 18. |
| | R2 | 1101. | 1033. | 991. | .696 | . 496 | .656 | 954. | 953. | 949. | 944 | 943. | 939. | 934. |
| | RI | 3199. | 3001. | 2879. | 2812. | 2792. | 2772. | 2753. | 2750. | 2733. | 2714. | 2712. | 2696. | 2678. |
| _Z | SOR T(THE TA) | 92.41 | 92.41 | 92.43 | 95.66 | 92.94 | 93.21 | 93.48 | 93.52 | 93.75 | 94.01 | 50.56 | 94.25 | 64.45 |
| | > | 156.1 | 167.1 | 174.1 | 177.9 | 178.9 | 179.8 | 180.7 | 18J.B | 181.0 | 1.62.5 | 182.7 | 183.5 | A4.4 |
| | I | • | • | 35. | 344. | 706. | 1065. | 1420. | 1474. | 1773. | 2121. | 2167. | 2467. | 2808. |
| | × | 5515* | 6575. | 7870. | 11739. | 14751. | 11777. | 20819. | 21280. | 23877. | 27,950. | 21340. | 30039. | 33143. |

L-1911-1 / RR211-228 EFFECTIVE PFPCEIVED NOISE LEVEL

| | | | AREA | 0.0 | 60.0 | 0.08 | 0.25 | 0.38 | 0.40 |
|---|---------------------------------|-------|----------------|-------|--------|-------|--------|--------|----------|
| | | | 1/2 WIDTH | 439. | 412. | 528. | 711. | 506. | ċ |
| UST | | | DISTANCE | 5515. | 6575. | 7870. | 11739. | 14751. | 16109. |
| EOFF THRUST | | | œ | 436 | 412. | 530. | 190. | 868. | 865. |
| LAPS, TAK | 90 | | RZ | 439. | 415. | 395. | 387. | 385. | 384. |
| NIDITY
O DEG. F | 100. FPND8 | | | | 927. | | _ | - | - |
| SFA LEVFL, 77 DEG. F., 70% RFLATIVE HUNIDITY
MAXIMUM TAKEOFF WEIGHT (430,000LB.), 10 DEG. FLAPS, TAKEOFF | | \ 1 N | SOR TI THETA) | 92.41 | 92.41 | 92.43 | 95.66 | 95.94 | .8 93.21 |
| SHT (430 | NOTSF LI | | > | 1.951 | 1.57.1 | 174.1 | 177.9 | 178.9 | 179.8 |
| 77 DEG. PKETCHETCH | PERCETVED | | I | • | 0. | 35. | 344. | 106. | 1065. |
| SFA LEVEL. | EFFECTIVE PERCEIVED NOISF LEVEL | | × | 5215* | 6575. | 7870. | 11739. | 14751. | 11777. |

| - | | |
|--|--------------------------------|--|
| PAGE | | |
| | | AREA
0.0
0.01
0.02
0.02 |
| 07-04-74 | | 1/2 WIDTH
105.
98.
131.
0. |
| RUST | | DISTANCE
5515.
6575.
7870. |
| EOFF TH | | 8
105.
98.
136. |
| E LEVEL
LAPS, TAM | 90 | R2
105.
98.
94. |
| IVED NUIS
JMIDITY
IO DEG. F | 110. FPNDB | R1
186.
175.
168. |
| L-1011-1 / RB211-228 EFFECTIVE PERCFIVED NUISE LEVEL
SFA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAXIMUM TAKEOFF WFIGHT (430,000LB.), 10 DEG. FLAPS, TAKEOFF THRUST | E VF I | N1 /
SQR TC THE TA)
92 - 41
92 - 43
92 - 43 |
| 8 EFFEC
F., 70%
GHT (430 | NOTSF L | V
156.7
167.1
174.1 |
| RB211-22
77 DEG.
KEOFF WF1 | PEKCE I VED | I
0.0
34. |
| L-1011-1 / RB211-2
SFA LEVEL, 77 DEG.
MAXIMUM TAKEOFF WR | FFFCTIVE PEKCEIVED NOISF LEVFI | x
5515.
6575.
7670. |

| 07-04-74 | |
|--|--|
| 11-1 / 9A211-228 FFFECTIVE PEACEIVED NOISE LEVEL | NUM TAKEOFF WEIGHT (430,00018.), 10 DEG. FLAPS, TAKEOFF THRUST |

| | | ARE
0.00 |
|---|---------------------------------|--|
| | | DISTANCE 1/2 WIDTH
5515. 24.
6575. 22.
7481. 0. |
| UST | | DISTANCE 5515. 6575. 7483. |
| CEOFF THR | | R
24.
22. |
| E LEVEL
LAPS, TAK | 98 | R2
24.
22.
21. |
| MIDITY
O DEG. F. | 120. FPMD8 | R1
28.
27.
25. |
| SEA LEVEL, 77 DEG. F., TOX RELATIVE HUMIDITY MAXIMUM TAKEOFF WEIGHT (430,00018.), 10 DEG. FLAPS, TAKEOFF THRUST | | N1 /
SOR II THF TA)
92.41
92.41 |
| F., 70K
GHT (430 | NUISE L | V
156.7
167.1
174.1 |
| 77 DFG.
KEOFF WFT | PERCFIVFD | ± 00 % |
| SEA LEVEL. | FFFECTIVE PERCFIVFD NUISE LEVEL | X
5515+
6575+
7870+ |

のできるという

RADIATION ANGLE (THETA) 90. START= 21280. INCREMENT* 6080.

IPLIND = 0 ICL = 0 ISL = C 18GTH = 0 NSCLND = 0 IPLIFT = 0 NSCLFT = 0 350.030 LA. TAKEGFF WFIGHT. 10 DEG. FLAPS, TAKEGFF THRUST

TYPEP = TAKE ENG =228 OFF VHI = 0.0 W = 350000. HP = 0. FLAP = 10. TAMB = 77.0

DEL V2 = 10.0 05 = 1.0 &CC1 = 0.0 SLOPF = 0.0 TFAC = 1.0 CBHT = 0.0 CBFAC = 0.0

| | 150,000 1 | .A. TAK | EGFF | 150,000 LM. TAKEGFF WFIGHT, 10 DEG. FLAPS, TAI | 10 nec. | FLAPS. | TAKFUFF THRUST | HRUST | | | 07-04-74 | | PAGE | 14 | | | |
|--------|-----------------|------------------------------|----------|--|--------------------------|---------------|----------------|-------------|--------|-----------------|-------------------|--------|-----------------|-------|-----------------------------|-----------------|--------------|
| | FI 4P = 10. UEG | | YEMPz | TEMP= 77.0 DEC F WIND* | F WIR | 10 = 0.0 KY | | \$L0PE =0.0 | ACCI | 0.0 | KT/SEC | | | | | | |
| | SEGMENT | PRESSUAF
ALTITUOF
(FT) | Q | GEOMETRIC TOTAL ALTERNOE DESTANCE (FT) | TOTAL
DISTANC
(FT) | F TOTAL (SEC) | F THRUST | (KTAS) | MACH | AL PHA
(DEG) | P 17CH
(DEG) | GRAD | TEMP
(DEG F) | 1EPR | N1/
SORT(THETA)
(PCT) | A) ROC
(FPM) | FLAP |
| | #b= | 0 | ME LGHT= | | 35000C. 1F | 1609= | 1.533 154 | | DEG C. | ∞ | .211-228 | BL FE0 | 0 F F | | | | |
| | 87-86.T | | • | | | 7 | 1 32879. | 130 | | | **** | • | 17.0 | 1.524 | 92.46 | • | 10. |
| | ROT-LUF | | • | • | 4102. | 32.4 | | | .224 | • • • • | *** | *** | 77.0 | 1.522 | 25.56 | **** | .01 |
| | LSF-35FT | | 34. | 35. | 54.78. | | | | .241 | *** | * * * * | **** | 76.9 | 1.520 | 92.44 | **** | .01 |
| | 356-GU | ψ. | 57.2: | * 65. | #4C4. | | | | | • • • • | • • • • | **** | 75.0 | 1.524 | 92.83 | **** | 10. |
| | · · · KKKK | 10 | 1047. | 1Cal. | 11705. | | | 166.6 | .248 | 10.9 | 20.6 | 691. | 73.3 | 1.528 | 93.20 | 28 19. | 10. |
| | XXXX | 15 | 1516. | 1569. | 14570. | | | | | 10.4 | 20.5 | . 166 | 71.6 | 1.532 | 93.57 | 2809. | .01 |
| | AXXX | 61 | .1861 | 2050. | 17366. | 19.9 | μ. | 168.9 | | 5.01 | 20-3 | .163 | 6.69 | 1.536 | 93.93 | 2778. | 10. |
| | XXXX+ ' | 77 | 2449. | 2526. | 202:7. | | N | 170.1 | .255 | 10.4 | 20.1 | . 160 | 68.3 | 1.539 | 94.27 | 2746. | •01 |
| | GUOKKKE | 26 | 2893. | 2555. | 2316.7. | 5.66 | | 171.2 | .257 | 5.01 | 20.0 | .157 | 66.7 | 1.542 | 94.61 | 2714. | 10. |
| | GU OXXXX | 4 3 | 1342. | 3.60. | 26,36. | 6*501 | 3 29289. | 172.4 | | 10.9 | 19.8 | .154 | 65.1 | 1.546 | 94.45 | 26el. | 0 |
| | GC+XXX | 3.7 | 3 734. | 3919. | 20426. | 5.611 | ~ | 173.5 | .261 | 10.9 | 9.61 | .151 | 63.5 | 1.549 | 95.30 | 2649. | .01 |
| | GU +XXXX | 6 | 4727. | 4373. | 31864. | 129.9 | ~ | 174.7 | .263 | 10.9 | 19.5 | .148 | 61.9 | 1.553 | 49.56 | 2617. | 10. |
| | Gu ex y x x | 4 | 44.54. | €P21. | 34872. | . 139.4 | | 175.8 | .265 | 10.9 | 19.3 | . 145 | 6C.4 | 1.556 | 95.58 | 2586. | •
• |
| | SI-OXXXX | 5061 | | 526 | 37600. | 149.4 | _ | 117.0 | .25B | 10.9 | 16.1 | . 143 | 58.9 | 1.559 | 96.32 | 2554. | 10. |
| | GU +XXXX | 55 | 5503. | \$ 701. | 40757 | 6.551 | | | .270 | 6.01 | 19.0 | .140 | 57.4 | 1.562 | 96.66 | 2522. | 10. |
| | GHOXXXX | 55 | -6155 | 61% | 4 35 1 3. | 1. 165.9 | | 179.3 | .212 | 10.9 | 18.8 | .137 | 55.9 | 1.565 | 97.00 | 2491. | • o 1 |
| ·
- | GII + X X X X | 63 | 6331. | 6567, | 66r69. | 174.9 | | _ | | 10.9 | 18.7 | .135 | 54.4 | 1.568 | 97.35 | 2460. | • c• |
| 30 | CHPXXX | 6737 | 37. | 69B2. | 49403. | | | | | 10.9 | 18.5 | .132 | 53.0 | 1.571 | 97.72 | 2428- | 10. |
| ١ | CU +XXXX | 1137 | 37. | 1393. | 52977. | | | _ | | 6.01 | 16.4 | • 130 | 51.6 | 1-574 | 98.11 | 2397. | .0. |
| | CHINAKK | 15 | 7533. | 1209. | \$6070. | . 209.9 | 1 26193. | _ | | 6.01 | 18.3 | .127 | 50.1 | 1.578 | 98.51 | 2367. | .01 |
| - | CITEXXX | 19 | 1924. | 8/1%. | 59165 | | | _ | | 10.9 | 18.1 | • 125 | 48.8 | 1.581 | 98.92 | 2339. | 10. |
| - | GII + Y Y X X | £ 3 | 4310. | erlo. | 62313. | | | _ | | 10.9 | 18.0 | .123 | 4-1-4 | 1.584 | 99.33 | 2311. | .01 |
| | Guexxxx | 36 | 3642. | 9313. | 65662 | | | _ | 187. | 10.9 | 17.9 | . 121 | 46.0 | 1.587 | 99.73 | 2283. | 10. |
| - | GII + K N K K | 43 | 1369. | 9465. | 0.9631 | 6.245 . | ~ | 188.3 | | 10.9 | 17.7 | 611. | 44.7 | 1.591 | 1001 | 2257. | .01 |
| - | GUTTE | 76 | 9442. | 9751. | 11616 | . 259.9 | | 149.4 | | 10.9 | 17.6 | -1117 | 43.3 | 1.594 | 100.54 | 2232. | .01 |
| | GAT OF FAM | 5 | 9411. | 10175. | 15023 | | ~ | 190.5 | | 6.01 | 17.5 | .115 | 42.0 | 1.597 | 100.94 | 2207. | 10. |
| - | ACC = 0.0 | 0 K175FC | į. | CULTC DRLD | 0.00 | a | | | | | | | | | | | |

L-1011-1 / AB211-22A FFECTIVE PERCEIVED NOISE LEVEL SÉA LEVEL, 77 DEG. F., 7CR RELATIVE HUMIDITY 350,000 LA. TAKEOFF WEIGHT, 10 DFG. FLAPS, TAKEOFF THRUST

| | 3 | 83 | 9 | 26 | 96 | 53 | 05 | 57 | 91 | 2 | 86 | 79 | 3 | 50 | 47 | 96 | 53 | \$ | 61 | 86 | == | 3 | 31 | 53 | 2 | 80 | = | 75 |
|-----------|--------------|-------|-------|--------|--------|---------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|--------|----------|---------|---------|---------------|----------------|---------|--------|--------|--------|--------|---------|
| | نڌ | 85.83 | 85. | 67. | 45. | 94. | 93, | 91. | 99. | . 6 | .88 | 87. | 87. | 96. | 85. | 94 | 94. | 83. | #3· | 82. | 82. | 81. | 81. | 80. | 80. | 19. | 79. | 78. |
| | de X | 3263. | 4102. | 5078. | 8904. | 11705. | 14526. | 17366. | 20227. | 21280. | 23107. | 26006. | 27350- | 28926. | 31864. | 33440. | 34822. | 37800. | 39 520. | . 16104 | 43613. | 4 5600. | 46849. | 46913. | 51680. | 52977. | 56070. | 57740. |
| | œ | 1520. | 1520. | 1520. | 1631. | 1867. | 2185. | 2552. | 2946. | 3096. | 3359. | 3775. | 3975. | 4704 | 46 30 ° | 4856. | 5055. | 5479. | 5721. | -1065 | 6319. | 6563. | 6734. | 7145. | 7341. | 7552. | 7956. | .27.19 |
| | ננו | ***** | | 118.71 | 103-22 | 96.96 | 60.96 | 93.61 | 91.63 | 90.99 | 64.98 | 88.51 | 87.89 | 07.20 | 86.05 | 85.48 | 85.01 | 84.07 | 83.56 | 63.20 | 82.41 | 81.47 | 61.63 | 80.81 | 80.37 | 60.09 | 79.33 | 78.96 |
| PATH | d X C | 3283. | 4102. | 5078- | 8904. | 11705. | 14526. | 17366. | 20227. | 21280. | 23107. | 26006. | 27360. | 28926. | 31064. | 33440. | 34827. | \$ 7800. | 39520. | 40747. | 43613. | 45600. | 46.849. | 49933. | 51680. | 52977. | 56070. | 57760. |
| FLICHT | CR TI 1HE 1A | 92.46 | 42.42 | 92.44 | 92.83 | 63.20 | 93.57 | 63.43 | 94.27 | 94.39 | 94.41 | 96.45 | 95.11 | 55.10 | 95.64 | 95.02 | 65.46 | 56.32 | 96.51 | 96.66 | 67.00 | 67.20 | 47.35 | 97.12 | \$1.95 | 98.11 | 98.51 | 58.73 |
| ALUNG THE | > | 139.4 | 151.0 | 162.0 | 165.4 | 166.6 | 167.7 | 168.9 | 1.02.1 | 170.5 | 171.2 | 1.72.4 | 6.77 | 173.5 | 174.7 | 175.3 | 175.8 | 177.0 | 177.6 | 3 7 R | 1.62.1 | 6.541 | 1.00.4 | 191.6 | 162.2 | 182.7 | 183.8 | 184.4 |
| LEVELS | x | ó | • | 15. | \$92. | 1063. | 1569. | 20502 | 2526. | 2698. | 2996 | 3460 | 16.73 | 34.50 | 4173 | 46.12. | 4.0.21 | 5266 | 5515. | 5701. | 6134. | 4385 | 6560. | 6982 | 7222. | 7398. | 7809 | 80 30 |
| MOISE | ¥ | 1283. | 4102. | 5078. | 8904 | 11 705. | 14526 | 17366. | 20277 | 21200. | 24107 | 24006. | 22.360. | 24926. | 1186.6 | 13440 | 34.822 | TAOO. | 39523 | 40797. | 41813. | 45600. | 46849 | 49903 | 51680. | 52952 | .0010 | \$:16C. |

L-IOLI-1 / MAZIL-PZR FFFCTIVE PEPCEIVED NUISF LEVFL SFA LFVFL, 77 DEG. F., 7CT RELATIVE HUMIDITY 15C.0CO LM. TAKFOFF AFIGMT, IQ DEG. FLAPS, TAKFOFF THRUST

| er fective | PFACTIVED | M-1SE LFVF | F 4F L | 60. L.PND& | 90 | | | | |
|------------|-----------|------------|--------------------------|------------|---------------|--------|----------|-------------|-------|
| ** | 1 | > | M1 /
SCR T(12/F TA) | ä | R.2 | a, | DISTANCE | 1/2 HIOTH | AREA |
| 1201. | ċ | 138.4 | 92.40 | 9375. | 2677. | 2617. | 1283. | 2677. | 0.0 |
| 4102. | 0 | 151.0 | 52.42 | 8592. | 7453. | 2453. | .102. | 2451. | 0.15 |
| \$ 0 7 P. | 15. | 162.0 | 55.26 | .010e | 2287. | 2287. | 5078. | 2287. | 0.32 |
| . \$CP 6 | 592. | 4.85 | 97.83 | 7822. | 2235. | 4141. | 8904 | 404B. | 1.19 |
| 1:765. | TOU! | 155.0 | 51.20 | 7747. | 2214. | 4645. | 11705. | 45¢8. | 2.06 |
| 14576. | 1500. | 161.7. | 53.57 | 7673. | 2194. | 5167. | 14526. | 4923. | 3.02 |
| 17366. | 2050. | 2.84. | 61.03 | 7601. | 2174. | 5636. | 17366. | 5250. | 4.06 |
| 13227. | 2526. | 1.0.1 | 64.27 | 7530. | 2154. | 6132. | 20227. | 55HB. | 5.17 |
| 21.240. | 2698. | 170.5 | 64.39 | 7505. | 2147. | 6171. | 21280. | 5717 | 5.60 |
| 23107. | 2056. | 171.2 | 14.43 | 7461. | 2135. | 6662. | 25107. | 5951. | 6.36 |
| 20000 | 34.50. | 172.4 | 40.39 | 7303. | 2116. | 7231. | 26004. | 6315. | 7.64 |
| 27760. | 34.73. | 177.9 | 55.11 | 7361. | 5 108. | 7361. | 27360. | 6379. | 8.26 |
| 24.924. | 30.19. | 177.5 | 45.30 | 73.25. | 209d. | 7375. | 28426. | .6119 | 8.96 |
| 31.854. | 4)73. | 134.7 | 45.00 | 1259. | 2000- | 7259. | 31464. | 5794. | 10.23 |
| 13440. | sr.12. | 175.3 | 45.67 | 7224. | 2070. | 1724. | 33440. | 5561. | 10.87 |
| 14677. | 4321. | 175.4 | 95.50 | 7144. | 2362. | 7194. | 34422. | 5340. | 11.41 |
| 1/400. | \$264. | 177.0 | 46.17 | 7130. | 2044. | 71 50. | 37800. | 4809 | 12.49 |
| 10470. | 5515. | 177.0 | 40.05 | 1054. | 2034. | 1094. | 39520. | 4461. | 13.06 |
| 40707. | \$1015 | 174.1 | 96.56 | 7067. | 2327. | 1067 | 43797. | 4176. | 13.46 |
| 41011. | 6136. | 1.4.1 | 97.00 | luns. | 2010. | 7405. | 43813. | 3383. | 14.28 |
| 45600. | 6145. | 1.061 | 97.79 | 6.468. | 2000. | 6969 | 45600. | 2792. | 14.67 |
| 44644 | 0000 | 100.4 | 97.35 | 6963. | 1 99 3 | 6943. | 46 449. | 2274. | 14.96 |
| 49903. | 6967. | 1.91.6 | 51.17 | 6881. | 1976. | 6941. | 49569. | • | 15.10 |
| | | | | | | | | | |

| NUISE LEVEL
ITV
, TAKFOPF THRUST | 40. (PMDH |
|---|-------------------------------|
| FFFETTVE PERLETVED . TOK RELATIVE MUMIDING . TOK RELATIVE MUMIDING . TO FEG. FLAPS | |
| L-IOII-1 / 48211-778 FFFFTTIVE PERCEIVED MISS LEVEL SFA LEVEL, 77 DEG. F., 70% RELATIVE MUMIDITY 150.000 LG. TAKEUFF WIGHT, 19 PEG. FLAPS, TAKFUFF THRUST | PEFFCIVE BUSCIVED WILSE LEVEL |

| FFFCT 1VF | PS PCF IVFO | MISS LEVEL | . f. VF. L. | 90. (PMDH | r Q | | | | |
|-----------|-------------|------------|-----------------|-----------|---|--------|----------|------------|---------|
| | | | / 174 | | | | | | |
| ~ | I | > | SOP TI THE TA) | ā | R.2 | Œ | DICTANCE | 17.3 61046 | * 20* |
| 1203. | • | 136.4 | ' | 3622 | 1247 | 1361 | 2262 | MINIE 7/1 | W C |
| 4102 | c | | | | | | 2 50 3 | 1541 | |
| | • | 3 | | 3317 | . 7411 | 7511 | 4102. | 1142. | 0.07 |
| . N. C. | 75. | 162.0 | | 3000 | 1065. | 1178. | SO 78 | 1277 | 7 - |
| 4004 | \$92. | 165.4 | | 1022 | 1073 | | | | |
| 200 | | | | | • | • 1017 | . 4040 | 2016. | 29*0 |
| • | | 300 | | 2662 | 1035. | 2565. | 11705 | 2326 | 1.04 |
| 14526. | 1569. | 161.7 | | 3006 | 1020 | 2.750 | 16.634 | | 2 1 |
| 1711 | 0000 | | | | | | .07641 | **107 | 1 . 0 % |
| | .00 | 7 4 20 0 | | 2012° | 1070 | 2935. | 17366 | 21012 | 2.02 |
| 27267 | 2526. | 1.021 | | 2 200 | 101% | 200K | 2000 | | |
| 21.20 | 3 0 4 | | | 1 1 | | - | | *2**1 | Z • 3 B |
| | 2 7 0 7 | | | . EC 67 | 1011. | 2898 | 21240. | 1060- | 2.4 A |
| 711d7 | 2306. | < 1 L 2 | | 2881. | 1006 | 2881. | 27441 | | 2 5 5 |
| | | | | | | | | | |

| L-1011-1 / RP211-278 EFFECTIVE PERCEIVED NOISE LEVEL NEW LEVEL, 77 DEG. F., TOR MELATIVE MUMIDITY | THRUST |
|---|--------|
| E E | 33 |
| \$ 6 | KEC |
| 25 | 7 |
| E I VED
MUNIO | FLAPS |
| TIVE | nec. |
| TIVE | 2 |
| 795 | CHT. |
| <u>.</u> ; | Z. |
| 300 | * * |
| 77 060 | 1458 |
| | 6 |
| - T- | 0 |
| 2, | 0 |
| 72 | ~ |

| 5rs Lfykl,
150,0c0 t9 | 77 DEG. 1 | F 708
WEIGHT. | AFLATIVE
10 DEC. | FLAPS. | STA LEYEL, 77 DEG. F., TOT BELATIVE MUMIDITY
150.0CD LD. TAKENFF WEIGHT, 10 DEG. FLAPS, TAKEOFF THAUST | ust | | | |
|---------------------------------|--------------|------------------|---------------------|------------|---|------|----------|---|------|
| 13431 ISI . OJAIJSBEM BALLUJJJG | 03A! J3# = A | 13 1 LS 1 | EVEL | 100. FPMDA | BADB. | | | | |
| | | | A1 / | | | | | | |
| × | x | > | SOB T. THET | | | 2 | DISTANCE | | 40 6 |
| 3261. | ė. | 138.4 | 97.20 | _ | | 447 | 3283 | | |
| 4.107. | ċ | 151.0 | 97.42 | | | 455 | 4102 | | |
| 5070 | 15. | 0.44 | 7 7 7 | | | | | | |
| | | | | | | *000 | 0000 | | 5 |
| | 205 | 165.4 | 02.43 | | | 939 | . 5068 | | 0.27 |
| 11705. | - 100 | 100.0 | 41.70 | 036. | *14* | 934. | 10860. | 0 | 0.2 |
| | | | | | | | | | |

L-INTI-1 / #AZII-278 EFFECTIVE PFRFETVEN MOISE LEVEL SEA FEVEL, 37 DEC. F., 70% RELATIVE MUMIDITY 1:0, 000 LR. TAKENFF WITCHI, 10 NEC. FLAPS, TAKENFF THRUST

FFFEGTIVE WEACEIVED NISTSELEVEL 120. LPNDB

| AREA
0.0
0.01 | 0.05 |
|--|-------|
| 1/2 WIDTH
119.
109.
140. | ò |
| 915TANCF
3283.
4102.
5078. | 5876. |
| 119.
109. | 111. |
| 82
119.
109. | 100 |
| | 177. |
| %1 / 114 143
%2 .46
92 .42
%2 .42 | 62.63 |
| 2 | 165.6 |
| ္င္ ဂ်င္န | 497 |
| * * * * * * * * * * * * * * * * * * * | 8008 |

L-1011-1 / RB211-225 EFFECTIVE PERCEIVED NOISE LEVEL SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY 350,000 LB. TAKEOFF WFICHT, 10 DEG. FLAPS, TAKEOFF THRUST

FFFECTIVE PERCETYED MOISE LEVEL 120. EPADS

| AREA
0.0
0.00 |
|--|
| 1/2 WIDTH
27.
24.
0. |
| DISTANCE
3283.
4102.
4847. |
| 27.
27. |
| 82
24.
23. |
| 81
32.
29. |
| 41 /
502 Tt 1116 TA 1
92 - 45
92 - 44 |
| 136.4
151.0
162.0 |
| 7 0 0 W |
| 3243.
6102.
5016. |

RADIATION ANGLE (THETA) 90. STANT: 21290. INCREMENT: 6080.

IPLIND + D ICL = D ISL = C IADTH = D NSCLND = D IPLIF; = D NSCLFT = D MAXIMUM TAKEOFF WEIGHT (430,000LD.), 22 DEG. FLAPS, TAKEOFF THRUST

DEL V2 = 10.0 0.0 CBFAC * 0.0 0.0 W - 430000. HP TFAC # 1.0 CBHT . TAKE FAG +228 UFF VMI = St 11PF " 0.0 0.0 * 133 ACC1 * 20

5-37

| ### ### ### ### ### ### ### ### ### ## | ###################################### | 000 | 1.0 4275 | | , | 4 | | • | | | | | | | |
|--|--|----------------------|--------------------------|------------------------|--------------|-----------------|----------|-----------------|---------|------------|-----------------|-------|-------------------------|------------|-------|
| 4. VETGATE CHILD CONTRACT THE THRUST SPEED MACH ALPHA PITCH GRAD TEPP LEPT SATTRIFIED AND THRUST CONTRACT TO CONTRACT THRUST SPEED MACH ALTHOUGH CHILD CONTRACT TO CONTRACT THRUST SPEED MACH ALTHOUGH CHILD CONTRACT THRUST SPEED MACH ALTHOUGH | ### ALTERDE ## ### ############################ | 9 20 0 | # C M 1 M | × 0.0 | Y Stuber | 0.0 | # CC # | 0.0 | KT/SEC | | | | | | |
| 3. WEIGHT 47000 Height 1.53 154 10.0 DEG C. RR.211-22R BR.ED OFF 77.0 1.522 92.43 1. S. WEIGHT 15.7 40.7 13.2 20.4 10.0 1.522 92.43 10.0 1. S. TOAL 10.7 10.7 10.2 1 | | 141C
7u3E D
11 | 101AL
1513ASC
1411 | TOTAL
TIME
(SEC) | HRUS
(LR) | SPEED
(KTAS) | MACH | AL PHA
(DEG) | 1 | GRAD | TEMP
1.56 F. | E P | N1/
RT(THET
(PCT) | ~~ | FLA |
| 1, 1, 1, 1, 1, 1, 1, 1, | | 41000 | 15 as as as | - | 33 1SA | 2 | DEG C. | 90 | 211-22 | 8L.F | OF | | | | |
| 1, 1, 1, 1, 1, 1, 1, 1, | | ÷. | * | 1.0 | 32438 | 6, | .220 | 7 4 4 | **** | *** | | | 92.43 | | |
| 1, 15, 16, 16, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18 | | ÷ | 5774. | ~ | 2013 | 6 | .235 | | •••• | | 77.0 | | 92.41 | * | • |
| 746. 1467. 1467. 1467. 1467. 169.2 252. 60.8 60.8 15.9 15.2 15.8 60.8 15.9 15.2 16.4 100. 74.9 15.2 16.4 100. 74.9 15.2 16.4 100. 72.9 15.2 10.2 | | 35. | 7061 | Œ | 1698 | 65 | -246 | **** | **** | | 76.9 | | 92.44 | | • • • |
| 9548 619. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1851. 1852. 612. 612.< | | 305. | -2 | | 1375 | 69 | .252 | * * * * | • • • • | | 75.9 | | 92.63 | | • • • |
| 1970 1971 1970 | | 419. | 537 | • | 1160 | 70 | .253 | 10.3 | 16.4 | 106 | 74.9 | | 92. RK | - | |
| 17.0. 17.15 17.00 91.2 91.2 17.15 25.6 10.3 10.2 10.3 10.2 10.3 10.5 10.3 10.5 10.3 10.5 10. | | 430. | 2139 | | 9560 | 2 | .254 | .0.3 | 16.3 | 104 | 73.8 | | 60 - 85 | 5 | • • • |
| 17.0 1514 25100 1012 3 0221 172.2 257 10.3 16.1 1011 71.7 1551 5755 1752 1752 2575 1752 2575 1013 16.0 1018 10.0 | | 238 | 4300 | _ | 0732 | 7 | .256 | 10.3 | 16.2 | 103 | 72.7 | | 93.32 | - | • • • |
| 1742. 1644. 2511. 111.7 2010. 173.0 259 10.3 16.0 100 10.0 1534 93.76 1727. 2144. 2511. 111.2 2000. 175.2 259 10.3 16.0 100 10.0 1534 93.76 1727. 2144. 2511. 111.2 2000. 175.2 269 10.3 15.9 10.9 64.0 15.9 64.0 1727. 2144. 2511. 10.1 15.9 10.9 10.9 10.9 10.9 10.9 11.5 10.9 10.9 10.9 11.5 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 | | 543 | 2208 | • | 0521 | ~ | .257 | 10.3 | 16.1 | 101 | 711.7 | | 93.55 | 4 | |
| 2.9.2. 2.444. 2.8.34. 17.1.7. 2.00 10.3 16.0 69.6 15.36 64.00 17.2. 2.9.2. 24.9. 24.9. 24.9. 17.1. 18.0. | | £ 6.4 | 25113. | • | 0309 | ~ | •259 | 10.3 | 0-91 | 100 | 70.6 | | 93.78 | | |
| 2116. 2439. 31979. 131.2 29480. 134.5 284 10.3 15.9 -097 66.6 15.5 097 66.6 15.5 097 66.6 15.6 098 67.6 15.6 098 67.6 15.6 098 67.6 15.6 94.63 167.0 1 | | 143 | 28.334. | • | 1600 | 7.3 | .260 | 10.3 | 16.0 | 960 | 9-69 | ٠, | 00-45 | | |
| 2016. 7711. 18922. 1512. 2.283 10.3 15.4 0.096 66.0 1.55.0 94.42 1680 2016. 3771. 3121. 31492. 151.2 2924. 115.2 2024. 115.2 2024. 115.2 2024. 115.2 2024. 115.2 1092. 66.6 155.0 94.63 1651. 1670. | | 439 | 30978. | ٠ | CHRA | 7 | .261 | 10.3 | 15.9 | 160 | 58.6 | • | 94.21 | TOB
BOL | |
| 117. 1321. 3021. 30899. 151.2 29549. 115.9 264 10.3 15.7 .094 66.6 1.554 94.63 1670. 1570. 3070. 3071. | | 7.7 | 3 3474. | ٠ | 9976 | 75 | .263 | 10.3 | 15.8 | \$60. | 67.6 | • | 94.42 | 689 | , . , |
| 1197) 1307 1986+ 161.2 20244 176.7 256 10.3 15.6 692 65.6 1.544 94.84 1651. 1730 1864- 4285- 171.2 2043- 171.4 267 10.3 15.5 699 65.6 1.546 95.05 1613. 1730 1864- 4285- 171.2 2044- 171.2 2044- 10.3 15.5 699 65.7 1.550 95.8 1513. 1740 1864- 4285- 171.2 2044- 171.6 171.6 173 15.4 698 62.7 1.550 95.8 1518. 1751 1864- 4285- 171.2 2044- 171.6 171.6 173 15.4 698 62.7 1.550 95.8 1518. 1752 1865- 5419- 271.2 2844- 171.6 171.6 171 10.3 15.4 698 62.7 1.550 95.8 1518. 1753 1864- 417- 417- 417- 417- 417- 417- 417- 41 | | 3321. | 30892. | 151.2 | 9455 | 75 | .264 | 10.3 | 15.7 | *60 | 66.6 | • | 94.63 | 670 | , , , |
| 9.00. 9.60. 9.60. 9.60. 1.54. 9.60. 1.54. 1.54. 1.54. 1.54. 1.54. 1.54. 9.60. 1.54. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.54. 9.60. 1.55. 9.60. <td< td=""><td></td><td>3307.</td><td>7</td><td>161.2</td><td>6476</td><td>2</td><td>.265</td><td>10.3</td><td>15.6</td><td>.092</td><td>65.6</td><td>•</td><td>94.84</td><td>651</td><td>, ,,</td></td<> | | 3307. | 7 | 161.2 | 6476 | 2 | .265 | 10.3 | 15.6 | .092 | 65.6 | • | 94.84 | 651 | , ,, |
| 1716. 176. | | 545 | ~ | 171.2 | 2~043. | 7.7 | .267 | 10.3 | 15.5 | 160* | 9.49 | • | 95.05 | 633 | |
| 4,144, 4,144, 4,144, 201.2 20643, 1794, 278 10.3 15.4 -086 62.7 1.550 95.48 1596, 401 4,17, 4,144, 201.2 24446, 1776, 273 10.3 15.3 -086 60.9 1.554 55.00 4,77, 4,193, 201.2 24426, 1776, 273 10.3 15.1 -086 60.9 1.556 96.09 1556 5,640, 5471, 6172, 2762, 181.2 2762, 181.2 2762, 181.2 2762, 181.2 2762, 181.2 16.3 15.1 -086 56.9 1.556 96.09 1522, 55.0 15.2 15.0 96.20 1.556 96.09 1522, 56.0 15.2 15.0 96.20 1.556 96.09 1522, 56.0 15.2 15.0 96.20 1.556 96.09 1522, 56.0 15.2 15.0 96.20 1.560 96.00 1522, 56.0 15.2 16.0 16.0 16.2 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 | | 6.65 | 3885 | 181.2 | 2 A d 4.2. | 78 | .248 | o | 15.5 | 060. | 63.7 | • | 95.27 | 615 | ' ' |
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| \$ 656. \$ 677. \$ 7779. \$ 221.2 \$ 8600. \$ 181.0 \$ 277. \$ 163. \$ 68.9 \$ 1.556. \$ 96.09 \$ 152. \$ 540. \$ 542. \$ 642 | | 650 | | 21:12 | 4252 | | .472 | 10.3 | 15.2 | • 086 | 60.0 | | 55. A9 | 560 | . ~ |
| \$C40. \$221. \$102. \$217. \$102. <th< td=""><td></td><td>255</td><td></td><td>251.2</td><td>8060</td><td></td><td>.273</td><td>10.3</td><td>15.1</td><td>.084</td><td>6.55</td><td>•</td><td>60.96</td><td>~</td><td>~</td></th<> | | 255 | | 251.2 | 8060 | | .273 | 10.3 | 15.1 | .084 | 6.55 | • | 60.96 | ~ | ~ |
| 5797. 5462. c4117. 241.2 27007. 182.4 270. 10.3 14.9 .087 58.1 1.560 96.50 1506. 5441. 4740. 677. 6740. 677 677. 1.560 96.71 1489. 5741. 7270. 6752. 1838. 279 10.3 14.9 .078 572. 1.560 97.11 1489. 6030. 6771. 7570. 271.2 27147. 10.4 .078 55.5 1.566 97.11 1499. 6270. 677. 7650. 271.2 2717. 10.3 14.8 .077 54.6 1.567 97.91 1497. 677. 647. 7650. 271.2 274. 10.3 14.7 .077 55.6 97.91 1497. 677. 647. 677. 275. 185. 228 10.3 14.4 .077 53.0 158. 702. 677. 770. 770. 7 | 6 4 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 | 7.7 | • | 231.2 | 1872 | | .275 | 10.3 | 15.1 | .083 | 59.0 | • | 96.30 | ف | N |
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| \$ 167. \$ 10.5 \$ 10.3 \$ 14.9 \$ 0.79 \$ 56.4 \$ 15.6 \$ 97.11 \$ 1472. \$ 10.30 \$ 14.6 \$ 17.12 \$ 1747. \$ 164.5 \$ 280 \$ 10.3 \$ 14.8 \$ 0.78 \$ 5.5 \$ 1.56 \$ 97.11 \$ 1472. \$ 27.0 \$ 14.1 \$ 17.0 \$ 17.7 \$ 167.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187.2 \$ 187 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | \$ 740. | | 251.2 | 7505 | | .277 | 10.3 | 14.9 | .080 | 57.2 | • | • | 0 | ~ |
| 6030. e244. 7340. 271.2 27147. 104.5 .280 10.3 14.8 .078 55.5 1.566 97.11 1454. 6273. 6447. 765.0. 261.2 26407. 165.2 .281 10.3 14.6 .077 54.6 1.567 97.32 1437. 6567. 6441. 765.0. 261.2 26407. 165.2 .284 10.3 14.6 .077 54.6 1.567 97.53 1419. 6767. 6567. 6274. 361.2 26451. 165.5 .284 10.3 14.6 .074 53.0 1.571 97.75 1402. 6773. 722. 722. 722. 722. 722. 722. 722. | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 5.56. | | 201.2 | 1325 | | .279 | 10.3 | 14.4 | .079 | 56.4 | • | 96.91 | 472 | ~ |
| 6273. 6457. 76570. 2612. 26407. 165.2 281 10.3 14.7 077 54.6 1.567 97.32 1437. 6577. 6771. 7775. 775. 165. 282. 10.3 14.6 075 53.6 1.569 97.53 1419. 6971. 6577. 167.2 26653. 187.2 286 10.3 14.6 077 53.0 1577 97.75 1402. 6973. 7202. 7202. 7203. 167.2 286 10.3 14.6 077 57.0 1869. 7202. 7202. 7700. 6227. 31.2 2670. 167.2 287 10.3 14.4 071 50.5 1.576 98.40 1353. 76.2 7700. 6227. 31.2 2587. 149.8 2.90 10.3 14.3 0.70 48.4 1353. 76.2 76.2 767. 10.3 14.2 0.06 48.4 135 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | カンチル・ | | 271.2 | 7147 | | .280 | 10.3 | 14.8 | .078 | 55.5 | • | 97.11 | 424 | ~ |
| 6567. 6744. 79656. 251.2 2672. 185.8 1282 10.3 14.6 .075 53.8 1.569 97.53 1419. 6577. 6577. 6577. 151.2 26651. 146.5 .284 10.3 14.6 .074 53.0 1.571 97.75 1402. 6773. 7720. 65742. 311.2 26653. 187.2 .285 10.3 14.6 .077 51.3 1.574 98.18 1369. 7202. 7465. 89111. 321.2 26290. 187.2 .285 10.3 14.4 .072 51.3 1.574 98.18 1369. 7203. 7700. 62277. 331.2 26131. 1845.5 .287 10.3 14.4 .072 51.3 1.576 98.63 1337. 72 7700. 62277. 341.2 26976. 147.2 .289 10.3 14.3 .070 49.7 1.578 98.63 1337. 72 7700. 62277. 341.2 26976. 147.2 .289 10.3 14.2 .068 48.9 1.580 98.85 1322. 72 8712. 8714. 3712. 25676. 1490.5 .291 10.3 14.2 .068 48.9 1.581 99.07 1307. 6307. 6307. 6315. 371.2 25576. 191.7 .293 10.3 14.1 .066 46.6 1.583 99.29 1277. 6307. 6307. 6307. 401.2 25577. 191.7 .293 10.3 14.0 .065 45.9 1.587 99.71 1263. 640. 6271. 114877. 401.2 25577. 192.4 .295 10.3 14.0 .064 45.1 1.591 100.14 1223. 6417. 953. 121842. 421.2 2668. 144.3 .298 10.3 13.9 .063 41.5 1.591 100.34 1222. 954. 121842. 421.2 2668. 144.3 .298 10.3 13.9 .063 42.7 1.593 100.34 1222. 954. 1202. 454. 454. 454. 454. 454. 456. 456. 456 | | 5457. | | 201.2 | 5467 | | .281 | 10.3 | 14-7 | .077 | 54.6 | | 97.32 | ~ | ~ |
| 6771. 6587. 62741. 502741. 166.5 284 10.3 14.6 .074 53.0 1.571 97.75 1402. 6973. 727. 8546. 311.2 26453. 187.2 285 10.3 14.6 .072 51.3 97.96 1385. 7202. 7202. 7202. 187.8 285 10.3 14.4 .072 57.6 98.18 1385. 76.2. 770. 95.77. 187.2 25976. 144.3 .070 49.7 1.578 98.45 1337. 76.2. 76.2. 56.2. 144.2 .070 48.2 1.578 98.45 1337. 76.2. 76.2. 144.2 2.24 10.3 14.2 .070 48.2 1.580 98.45 1337. 76.2. 10.5 144.3 2.24 10.3 14.1 .064 48.2 1.580 99.29 1292. 8.20 1.0 1.0 1.0 14.1 | | 6 74 3 . | | 251.2 | 7017 | | .282 | 10.3 | 14.6 | .075 | 53.8 | | 97.53 | 0 | ~ |
| 6973. 727. 6594c. 311.2 26453. 187.2 -285 10.3 14.5 -072 51.3 1574 98.18 1369. 7202. 74c5. 89111. 321.2 26290. 187.8 10.3 14.4 -072 51.3 1576 98.18 1369. 7c2. 7c2. 7c2. 7c2. 180.3 14.4 -072 51.3 1576 98.40 1353. 7c2. 7c2. 7c2. 14.4 -070 46.7 1.576 98.40 1353. 7c7. 7c7. 151.2 25476. 149.8 290 10.3 14.2 -069 48.9 1.580 98.65 1327. 6307. 6307. 64.7 1.590 10.3 14.1 -069 46.6 1.589 99.29 1277. 6307. 6507. 10.1 292 10.3 14.1 -064 46.6 1.583 99.29 1277. 6307. 624.0 <td< td=""><td>6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td><td>2 15 2</td><td></td><td>101.2</td><td>1299</td><td></td><td>.284</td><td>10.3</td><td>14.6</td><td>-074</td><td>53.0</td><td>•</td><td>97.79</td><td>02</td><td>~</td></td<> | 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 2 15 2 | | 101.2 | 1299 | | .284 | 10.3 | 14.6 | -074 | 53.0 | • | 97.79 | 02 | ~ |
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| 7.28. 7700. 92277. 331.2 26131. 188.5 .287 10.3 14.4 .071 50.5 1.576 98.40 1353. 7. 2. 7512. 8712. 9574. 341.7 25976. 149.2 .289 10.3 14.3 .070 49.7 1.578 98.43 1337. 7. 3. 1612. 9574. 341.7 25976. 149.8 .290 10.3 14.3 .069 48.9 1.580 98.85 1322. 8091. 8712. 8712. 25676. 190.8 .291 10.3 14.1 .064 48.2 1.581 99.27 1202. 8107. 8613. 105101. 371.2 25571. 191.1 .292 10.3 14.1 .064 46.6 1.583 99.29 1277. 8107. 8654. 11573. 391.2 25572. 192.4 .295 10.3 14.0 .065 45.9 1.587 99.71 1263. 8107. 8712. 8712. 25572. 192.4 .295 10.3 14.0 .065 45.9 1.589 99.93 1249. 81157. 8712. 8712. 25573. 192.4 .295 10.3 14.0 .064 45.1 1.589 99.93 1249. 81157. 8712. 8712. 25718. 143.0 .296 10.3 13.9 .063 44.4 1.591 100.34 1222. 81157. 8746. 1236.2 .2458. 144.3 .298 10.3 13.9 .063 42.4 1.593 100.34 1222. | 4479
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44 | 7.00. | | 331.2 | 6135 | | .287 | 10.3 | 14.4 | .071 | 50.5 | 1.576 | 98.40 | 53 | ~ |
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| 6307. P613. 105101. 371.2 25531. 191.1 .292 10.3 14.1 .067 47.4 1.583 99.29 1292. 847.6 1.583 99.29 1292. 847.6 1.583 99.29 1292. 847.6 1.583 99.29 1277. 877. 877. 877. 877. 877. 877. 877. | 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | J. 68. | 101601. | 361.2 | 5676 | | 162. | 10.3 | 14.2 | 900 | 48.2 | 1.581 | 99.07 | 7 | ٠, |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | 66 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6.3. | | • | 1655 | | 262. | 10.3 | 14.1 | 190. | 47.4 | 1,583 | 99.28 | 26 | ~ |
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0547. | . 22.0 | CORPAG. | B. | 5 1:30 | | .293 | 10.3 | 14.1 | • 066 | 46.6 | 1.585 | 99.50 | 17 | ^ |
| 8940. 9271. 114822. 401.2 25118. 143.0 .296 10.3 14.0 .064 45.1 1.589 99.93 1249. 4147. 944. 1189. 10.14 1236. 4147. 944. 1189. 10.14 1236. 4147. 944. 1189. 10.14 1236. 4147. 9459. 12134. 411.2 24858. 144.3 .298 10.3 13.9 .062 43.7 1.593 100.34 1222. 4551. 4564. 124446. 431.2 24858. 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. | 00000
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0167 | | 111573. | 616 | 25257 | | .295 | • | 14.0 | • 065 | 45.9 | 1.587 | 99.71 | 6 | ~ |
| 9147. 9444. 118004. 411.2 24987. 193.6 .297 10.3 13.9 .063 44.4 1.591 100.14 1236. 9151. 9550. 121342. 421.2 24858. 194.3 .298 10.3 13.9 .062 43.7 1.593 100.34 1222. 9551. 9551. 9560. 124446. 431.2 24733. 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. | , , , , , , , , , , , , , , , , , , , | | | • | 5118 | | .296 | | 14.0 | • 90• | 45.1 | 1.589 | 99.93 | 5 | ~ |
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| 45×1. 45¢4. 124446. 431.2 24733. 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. | • • • • | | | 21. | 24858. | ٠ | .298 | | - | • 062 | 43.7 | 1.593 | 0 | 2 | ~ |
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L-1011-1 / #8211-228 FFFECTIVE PFACEIVFD NOISE LEVEL SEA LEVEL, 77 1146. F., 70% RELATIVE HIMIDITY MAXIMUM TAREOFF WEIGHT 1430,040ER.P. 22 DFG. FLAPS, TAKEOFF THRUST

| A.U. (S. F. | 214431 | ALUNG THE | FLICHT | РАТН | | | | |
|---|--------|-----------|---------|---------|------------|--------|--------|------------|
| • | 2 | | 7 1 M | _ | | œ | • | 757 |
| 7 0 7 | | , | 92.43 | 4856 | | 1520. | 4856. | • |
| | , , | 1 | 92.41 | 5774. | **** | 1520- | 774 | Š |
| 100 | | | 55.76 | 7061. | 8.6 | 1520. | 190 | , |
| 10475 | 105. | | 92.63 | 1.0675. | 07.0 | 1550. | 10675. | - |
| 13537 | , C | | 92.80 | 13537. | 2.8 | 1641. | ~ | ë |
| 71.9 | 930 | | 43.0- | 2159 | 000 | 1782. | ~ | • |
| 200 | 2 10 | | ~ | 9300 | 7.8 | 960 | 00 | ř |
| 21.250. | 6.5 | 72. | 4 | | 4.6 | 2098. | 21280. | ĕ. |
| 77.200. | 3.4.3 | 72. | | ~ | 9.1 | 2166. | 9 | 9 |
| 25113. | 440 | 73. | ~ | ٧. | 4.4 | 2390. | 9 | ż |
| 27.300. | | 173.5 | | 9 | • | 2571. | 27360. | ÷ |
| 24014. | - | 73. | ć | Œ | 3.0 | 26.28. | 30 | _: |
| 1357P. | 24.19. | : | 7 | 697 | 1.8 | 2874. | 30978. | ċ |
| 33443. | - | 5 | ~ | 344 | 0.9 | 3084° | ġ | ċ |
| 11939 | | 3.5 | 4. | 345 | 0.7 | 3126. | 0 | ċ |
| 11.847 | | 175.4 | 94.63 | 683 | 4.1 | 3381. | 36412. | æ. |
| 3 | - | ٤ | z | 955 | 8.9 | 3609. | 20 | ~ |
| · 是 · · · · · · · · · · · · · · · · · · | • | 176.1 | 94.16 | 39968. | 8.8 | 3039. | æ | ~ |
| 40.50 | ~ | - | 95.05 | 245 | 3.0 | 3898. | 47856. | ~ |
| 43000 | 3645. | ĭ | 65.23 | 260 | N | 4135. | g | • |
| 4.50.50 | 7 | 178.1 | 45.27 | 45856. | 7.2 | 4157. | 56 | · |
| 40 643. | 44 | £: | 45.48 | 9 | 4.9 | 4416. | Š | S |
| 51630. | 00 | 79 | 55.67 | -an | 5.8 | 4655. | 0 | S. |
| St A93. | 4419. | 179.6 | 95.CA | | 5.8 | 4673. | 4 | S |
| 54910. | 4690. | 180.3 | 95.69 | 930 | 5.1 | 4930 | 54030. | ❖∙ |
| \$7.700. | 49 18. | Ç | 96.08 | 57760. | 4.6 | 5166. | 2 | ∢ . |
| 47019. | 443 57 | ij | 96.00 | 57979. | 4.5 | 5145. | 57979. | * |
| 404014 | 5721. | 7 | 56.30 | £1050. | • | 54 38. | 0 | • |
| 61860. | | 162.3 | 69.95 | 63840. | ν,
• | 5667. | 63840. | • |
| 64117. | 5485. | €, | 64.50 | 64112. | 3.5 | 5689 | 2 : | • |
| .16110 | • | C | • | è7197. | ٠.
د | 5938. | ~ | N (|
| 67570. | 5 | E | 5 | 69970. | 2.6 | 6:56. | 2 | v |
| 17391. | 5296. | 163.8 | \$ | 0293 | • | 6185. | 70293. | v |
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| u | Ĵ | • | ^ | 000 | | 66 32. | 2 9 | |
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| 080 | 335 | • | ~ | 340 | 0.7 | • | 9 | 0 |
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| 000 | 143 | | ~ | ó | 6.6 | 7548. | 3 | o. |
| *** | . C. 5 | • | 7 | | 9.6 | 8 | _ | 0 |
| 787 | 130 | • | 4 | - | 4.6 | | e. | Φ, |
| 94746 | 7967. | 168.7 | 46.84 | 44240. | ė. | 69 | 9 | 78.94 |
| 474 | ~ | | • | 95474. | 0 | 8076. | ď | ∞ - |
| 2 % | | | 7 | | 8.6 | 0 | 98672. | 78.42 |
| | | | | | | | | |

1-1911-1 / #B211-274 fFFECTIVE DERCEIVED MOSSE LEVEL STA LEVEL, 77 DFG. *., FUR DELIVE MUMIDITY WAREHUM TARTOFF WEIGHT (130,000L0.), 22 DEG. ELAPS, TAKEHFF FHRUST

| 90117-991 | a-acetyfa matsa leve | 7 3510A | EVIL | RG. LPMDR | 0. 3 | | | | |
|------------|----------------------|-------------|----------------|-----------|-------------|-------------|-------------------------|-----------------------|-------|
| | | | / 1M | • | , | ć | • | · | 4004 |
| ⋖ | I | > | SOR 16 14 14 3 | . | 7 24 | x (| DISTANCE. | - | |
| 4 P C. 4. | ċ | 149.3 | 92.43 | 8 74¢. | 2491. | 26.67 | 4000 | -16-2 | |
| \$11x. | | 15.F. | 15.25 | \$100. | 2341. | 2341. | >7114. | 2341. | 91.0 |
| 1404 | 35. | 165.2 | 45.40 | 7853. | 2242 | 2242 | 7061. | 2242. | 0.37 |
| 10575. | 105. | 169.2 | 92.63 | 7458. | 2187. | 3607. | 10075. | 3594. | 1.13 |
| 2141 | 4 | 170.0 | 47.86 | 7611. | 2174. | *086* | 13537. | 4010 | 1.91 |
| 16412. | 930. | 176.7 | 40.84 | 7565. | 2 16 2 . | 4443. | 16412. | 4345. | 2.78 |
| 1.1 1.00 | - SC - 2 - 1 | 171.5 | 93.12 | 7519. | 2149. | 4753. | 19300. | 4589. | 3.70 |
| 21240. | 1646. | 172.0 | €3.48 | 74.88. | 2140. | 4954 | 21230. | 4139. | 4.36 |
| 22.200 | 1543. | 177.2 | 43.56 | 74.74. | 2137. | 5047. | 22200. | 4806. | 4.68 |
| 7.117 | | 171.0 | 67.13 | 1429. | 2124. | >340. | 25113. | 5011. | 5.7C |
| 77 36.0 | 2074 | 173.5 | 24.00 | 1355. | 2115. | 5569. | 27360. | 5168. | 6.52 |
| 74010 | 2143 | 177.7 | 24.00 | 7305. | 2112. | 5643. | 28039. | 5217. | 6.78 |
| 11078. | 24.19 | 47.5 | 9***! | 7343. | 2101. | 5952. | 30978. | 5429. | 7.90 |
| 11620. | 2663 | 1 2 5 6 11 | 44.39 | 7308. | 2091. | 6222. | 33440. | 5614. | 8.88 |
| 11920 | 2731. | 175.2 | 24.45 | 7301. | 2089. | 6277. | 33429. | 5651. | 4.07 |
| 1000 | 3321. | 5.561 | 44.03 | 1259. | 2078. | 6612. | 36 192. | 5882. | 10.30 |
| 16.9.70 | 12.73 | 1.70.6 | CH. 16 | 7223. | 2368. | . 9063 | 39520. | 6083. | 11.43 |
| V. 0.00 | 1507 | 170.7 | 34.64 | 7216. | 2066. | 6946. | 39868. | 6108. | 11.58 |
| 416514 | 35,89 | 177.4 | 45.05 | 7176. | 2055. | 7178. | 42856. | .9129 | 12.90 |
| \$7 & O.O. | 200 | 1.8.1 | 95.75 | 7141. | 2045. | 7141. | 45600. | 6019. | 14.10 |
| 6.0 F. C. | 1469. | 1.87. | 45.27 | 71 38. | 2344. | 7130. | 45 A50. | 5998. | 14.21 |
| 40000 | 4146. | P . B . 1 | 83.53 | 7098. | 2033. | 1098. | 48864. | 5762. | 15.48 |
| \$1640. | 4400 | 179.5 | 95.67 | 7067. | 2023. | 7062. | • 0691 \$ | 5524. | 16.62 |
| 5,343 | 44.10. | 179.0 | 55.68 | 7060. | 2023. | 1000 | 51893. | 5205. | 16.71 |
| \$69 10. | .00.00 | 180.3 | 45° # # | 7021. | 2012 | 7021. | 54930. | 5226. | 17.88 |
| \$7700. | 4n 38. | 180.4 | 96.08 | 6986. | 2002 | 6996 | 57760. | * 845 * | 16.81 |
| 51614 | 4951. | 0.181 | 96.39 | 6984. | 2002 | . > 649 | 57979. | 4919. | 18.99 |
| 61340. | 4.221. | 131.7 | 96.30 | 6946. | 1661 | 6946. | 61040. | 4582. | 50.03 |
| 61840. | 5459 | 162.3 | 96.49 | 6513. | 1982. | 6913. | 63840. | 4241. | 20.92 |
| 64112. | 54 B2. | 1.82.4 | 46.50 | 6069 | 1961 | 6069 | 64117. | 4205. | 21.00 |
| 67197 | 5740. | 143.1 | 96.71 | 6873. | 1971. | 6873. | 67197. | 3780. | 21.88 |
| 6.39.20. | 5265 | 163.7 | 46.89 | 6842. | 1963. | 6842. | 69920. | 3351. | 22.58 |
| 70203. | \$9.96. | 183.6 | 16.35 | 6837. | 1961 | 6837. | 76293. | 3287. | 22.67 |
| 73400. | 6748. | V . A . A | 97.11 | 6602. | 1952. | 6802. | 13400. | 5689. | 23.33 |
| 74 000 | 64.56. | 185.0 | 67.75 | 6113. | 1944. | 6113. | 16000. | 2048. | 23.77 |
| 165,70. | 6497. | 1.05.2 | 97.32 | 6767. | 1942. | 6727. | 76520. | 1891. | 23.85 |
| 12650. | 6/43. | 1 65 . B | 97.53 | 6732. | 1932. | 6732. | 79572. | • | 24.05 |
| | | | | | | | | | |

L-IDII-1 / # 8211-228 FFFECTIVE PF:CEIVED MOISE LEVEL SF& LRVEL, 7? DEG. F., TOR RELATIVE HUMFOITY MAXEMUM TAKEOFF WEIGHT (410,0004.8.1, 22 DFG. FLAPS, TAKEOFF THRUST

90. FPMD8

EFFECTIVE PERCFIVED MUISE LEVIL

| AREA | 0.0 | 0.0 | 0.19 | 0.59 | 0.00 | | 1.88 | 2.23 | 2.34 | 2.88 | 3.23 | 3.31 | 3.66 | 3.86 | 3.89 | 3.91 |
|------------------------|--------|-------|-------|-------|-------------------|--------|--------|---------|--------|--------|----------|--------|--------|-----------|--------|--------|
| HIDIM Z/I | 1163. | 1090 | 1353. | 1763. | 1989. | 2141. | 2396. | 2505. | 2440. | 2198. | 1964. | 1582. | 1447. | 875. | 6.19. | • |
| DISTANCE | 4856. | 5774. | 7061. | 10075 | 13537. | 16412. | 19300. | 21280. | 12200. | 25113. | 213600 | 28039. | 30478. | 33:40. | 13429. | 347840 |
| œ | 1163. | 1090 | 1353. | 1789. | 2083. | 2371. | 2697. | 2892 | PHRT. | 2869. | 2056. | 2852 | 2836. | 2822. | 7820. | 2803. |
| R2 | 1163. | 1060 | 1044. | 1019. | 1015. | 1010 | 1005 | 1002 | 1001 | 966 | 993 | 465 | 288. | 984 | 983 | 919. |
| 18 | 3379. | 3167. | 3034. | 2958 | 2940. | 2422. | 2904 | 2992. | ZEAT. | 2869. | 2 856. | 2052 | 2836. | 2822. | 2820. | 2803. |
| M1 /
50g T(TMf TA) | 92.43 | 92.41 | 47.46 | 10.52 | 7K * 25 | 41.04 | 63.32 | 4.65 | 0.43 | 97.76 | 93.95 | 20.45 | 94.21 | 64.39 | 75.45 | 94.63 |
| > | 168.3 | 158. | 165.2 | 169.2 | 170.0 | 170.1 | 171.5 | 177.0 | | 0.7 | 4 | | | | | 175.9 |
| r | o | ć | 12. | 105. | ()
()
() | 930. | 1 / 10 | 1646. | | 1961 | 20.6 | 2143 | 76.10 | 26.83 | 77.11 | 1321. |
| × | 4.656. | 5774. | 7041 | 10675 | 1.8537 | 164 | 10100 | 21.240. | 2233 | | | 0.00 | 1367 | N 0 4 4 4 | 2000 | 30842 |

FEFFETTINE PERCEIVED NOISE LEVEL

| | | 1/2 MIDTH | 444 | • | 434. | 554. | 718. | 672. | • |
|--|---------------------------------|-----------|--------|-------|-------|--------|--------|--------|---------|
| JST | | DISTANCE | 7307 | • 000 | 5774. | 7061. | 10675. | 13537. | 16239. |
| EOFF THRI | | | | | | | | | 911. |
| APS, TAK | æ. | ç q | | *0* | 434. | 4 36 | 407 | 405 | *0* |
| Afoity
2 DEG. FL | 100. FPNDB | | | | | | | | 911. |
| EI ATTVE HU! | | / 1% | | 65.59 | 42.41 | 62.66 | 6 | 44 CS | 63.69 |
| . 70% R | ¥015£ L£ | : | ^
> | .48.3 | 159.1 | 165.2 | 000 | | 170.7 |
| 4 6 2 1 1 - 7 2 0
7 7 0 6 5 4 6
6 0 6 7 4 6 5 0 | EKCI IVED | : | I. | o | Ċ | ,
, | | | |
| L-1011-1 / MB211-720 EFFELINE FENERATOR NOISE LEVEL SEA LEVEL: 77 OFG. F., 70% RELATIVE MUMICITY MAXIMUM TAKEUF MEIGHT (430,03018.3, 22 DEG. FLAPS, TAKEOFF IMPUST | PFFECTIVE PEXCTIVED MOISE LEVEL | , | M | 4856 | 6.23 | | | | 17.6.12 |
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L-1011-1 / RE211-22B EFFETIVE : FREFVED NOISF LEVEL SFA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKEGFE MFIGHT 4430,000618.), 22 DEG. FLAPS, TAKEGFF THRUST

EFFECTIVE PERCEIVED NOISE LEVEL 110. FPNDB

| | | 104. 0.0 | | 0. 0.03 | |
|---------------|-------|----------|-------|---------|--|
| _ | | 5774. 10 | | | |
| _ | | 104. | | | |
| R2 | 111. | 104. | - 66 | 97. | |
| ย | 197. | 185. | 177. | 173. | |
| CR TI THE TAS | 62.63 | 92.41 | 92.44 | 65.63 | |
| > | 148.3 | 158.3 | 165.2 | 169.2 | |
| ľ | ċ | ö | 15. | 305. | |
| w | 4856. | 5774. | 7061. | 10675. | |

| | | THRUST |
|--|--|--|
| د | | TAKEOFF |
| L-1011-1 / RB211-228 EFFECTIVE PERCEIVED NOISE LEVEL | SEA LEVFL, 77 DEG, F., 70% RELATIVE HUMIDITY | MAXIMUM JAKEGFF WEIGHT (430,000LB-1, 22 DEG. FLAPS, TAKEGFF THRUST |
| 1-10 | SEA | MAK |

| 120. FPNDB |
|---------------------|
| MOISE LEVEL |
| EFFECTIVE PERCEIVED |

| | AREA | 0.0 | 0.00 | 0.0 |
|------|----------------|--------|-------|-------|
| | 1/2 W1DTH | 25. | 23. | • |
| | DISTANCE | 4856. | 5774. | 6729. |
| | « | 25. | 23. | 27. |
| | #2 | 25. | 23. | 22. |
| | e
E | 30. | 28. | 27. |
| M1 / | SQR T(THE TA) | 92.43 | 92.41 | 45.56 |
| | > | 149.3 | 158.3 | 165.2 |
| | z | • | • | 35. |
| | × | 4.656. | 5174. | 1001 |

PAPIATION ANGLE FIMESA) 90, START* 21280, INCREMENT* 6080.

*AKE ENG *720 OFF VWI K 0.0 % K 430000. HP K 0. FLAP K 10. TAMB K 77.0 St. OPE . 0.0 TFAC . 1.0 CBHT = 1422.0 CBFAC = 0.0 05 . 1.0 ACCI . 3.0 typep .

DELV2 = 10.0

REC (FPH) SORT(THETA) 84.64 84.61 84.91 85.14 85.31 1.521 1.5519 1.5529 1.5529 1.5529 1.3529 1.3329 1.3329 1.3329 1.3329 1.3329 1.3329 1.3329 1.3329 1.3329 1 CPR .401 .403 .406 .408 E14. 3 54.6 51.7 50.3 48.8 47.4 111-228 P ITCH (DEC) 18.2 18.1 18.0 14.5 13.8 1 - 51 KT/SEC AL PHA * * * * 0.0 162° ACC1 .287 ž 20-0 174-1 174-1 174-1 174-1 174-1 174-9 174-9 181-0 194.7 182.1 4.681 93.0 200.8 2 5 SLOPE=0.0 £ 50 ¥ 8 Ç 36 CUTBACK THRUST (LA) 71310. 7131. 6970. 7507. 8642 8438 6233 8064 7856. ×× 70741 7186 15803 49.5 125.6 152.6 180.2 5667.9 5687.9 5687.9 5687.9 1 1 1 NO -FLAPS. 101AL 015 TANGE 15 TJ 100017. 145757. 127010. 145711. 160043. 251264. 140672. 205444. 270615. 6 4 3 R.Y. 94666. 176977 O.E.C. 360 GECOMETATO ALTITUDE (LFT) TAREOFF NFICHT, LO 77.0 7 6 A P = P4655UAF ALTITUDE EFT) 5,40 8.17-16.6 1.07-35.7 356-60 EL RE-10. SUGATAT Guerra Guerra Guterfr CP-KKKK CP-KKKK CANXARX MARIAN CANANA ARREIG) PARKET **医食物的 医食物** FXXX AX XXX PXXXX C.S.R.X. PERM CANEXAX 104-40

| 1-1011-1 /
SFA LFYFL:
MARTHUM 181 | 49211-22
77 966.
#60°F Mel | 6 EFFC | TIME PURC
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D&C. FLAP | FIVED MD1
HUMIDITY
S, FAR 36 | SE LEVEL
CUTBACK AT | T 3.5 N. | MILES | |
|---|---|--|---|--|------------------------|---------------------------------------|--|--|
| 18114 | 513037 | arthe tab | 1.1.2 | PATH | | | | |
| • | Ξ | | Tref T | A) IP | w | œ | X P P | 15.1 |
| 4519. | • | | 42.41 | \$515 | : | | 5515 | 85.30 |
| 6575. | Ġ | 167.1 | 45.41 | 6575. | - | 1520. | 6575 | 45.02 |
| 1870. | 15. | 174.1 | 47.75 | 7870. | 118,40 | n a | 7870. | 24.70 |
| 11712. | 144. | 177.6 | 47.0% | 0 | 61.901 | 7) / | 756711 | 21.13 |
| 1601 | 7 200 | 6 ° 4 C + | # 5 · A · C | | 10.101 | ٠. | 9 40 70 60 60 60 60 60 60 60 60 60 60 60 60 60 | 06.17 |
| | 1376 | 2.0 | | 40.40 | 90.30 | • • • • • • • • • • • • • • • • • • • | 21.260. | 43.07 |
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| 6.4.4.4 | | | 62,64 | 0714 | 30.13 | Λ. | 36714. | 88.79 |
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| 55 | 4465. | 190.0 | 61.94 | 94446 | • | 5097. | 14468 | 83.01 |
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| 114550 | | 102.0 | | 110,00 | 81.73 | **** | 118500 | 61.43 |
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| | · · · · · · · · · · · · · · · · · · · | * * * * * * * * * * * * * * * * * * * | | L CARRES | 2 P 2 P | 2 2 | | 79.57 |
| | ٠. | | | | . 0 | 2 | 155040 | 74.36 |
| | | 1 90 1 | | 101120. | 16.30 | 7429 | 161120. | 79.06 |
| 161212 | 1133. | 107.1 | * 5° 4 W | 1636.79. | 70.17 | | 161679. | 76.93 |
| 46727 | | 4.221 | \$3.01 | 187244. | 10.01 | | 107700. | 18.77 |
| 171840. | 18.45 | 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. | 65.04 | | 74.73 | $\overline{}$ | 173200. | 78.51 |

| EFFECTIVE PERCEIVED NOTSELLEVE | PERCEIVED | NOTSE.1 | ٤. • | 80. EPNDB | | | | | |
|--------------------------------|----------------|---------|-----------|-----------|--------|-------|----------|---------------|-------|
| | | | | | | | | | |
| ; | ; | : | / 1:4 | 5 | 60 | œ | DISTANCE | HIOTH CVI | ARE |
| ¥ 50 | c ⁽ | 156.7 | 520 61 CO | ά | 23,466 | 2366. | 5515 | 2364 | 0-0 |
| **100 | • | - 67.7 | 17.00 | 77.B | 2218 | 2218 | 6575 | 2218. | 0 |
| 10.0 | • • | 1761 | 14.76 | 7451. | 2128. | 2128. | 7870. | 2127 | 0 |
| 11739 | 366 | 177.9 | 97.66 | 7280 | 2079. | 3530 | 739 | 3514. | |
| 16913 | 720. | 178.9 | 95,95 | 7226. | 2064. | 4048 | 14913. | 3983. | 2.0 |
| 18135. | 1096 | 179.9 | 93.23 | 7172. | 2050. | 4445. | 18!35. | 4308. | 5.9 |
| 21280 | 1457. | 1.80 | 93.51 | 7121. | 2036. | 4796. | 21280. | 4570. | 3.9 |
| 21409 | 1472. | 180.8 | 53.52 | 7119. | 2035. | 4811. | 21409. | 4580. | 4.01 |
| 22326. | 1549. | 131.0 | 82.48 | 6294. | 1850. | 4531. | 22326. | 4258. | 4.3 |
| 27360. | 1807. | 181.7 | 8.2.60 | 6283. | 1846. | 4797. | 27360. | 4443. | 5.8 |
| 30403 | 1963. | :82.1 | 85.68 | 6275. | 1844. | 4964 | 30403. | 4559. | 6.8 |
| 33440. | 2114. | 182.5 | 82.74 | 6269. | 1841. | 5130. | 33440. | 4674. | 7,8 |
| 38 7 1 4. | 2377. | 183.2 | 82.86 | 6257. | 1837. | 5431. | 34714. | 4883, | 9.6 |
| 39520. | 2416. | 183.3 | 82.88 | 6255. | 1.837. | 5476. | 39520. | ~>16+ | 6.6 |
| 45600. | 2711. | 184.1 | 83.00 | 6240. | 1832. | 5828. | 45800 | 5159. | 12.1 |
| 41279. | 2192. | 184.3 | 83.03 | 6236. | 1830. | 5925. | 47279. | 5226. | 12.7 |
| 51680. | 2998. | 1.84.9 | 83.12 | 6226. | 1827. | 6158. | 51680. | 5378. | 14.4 |
| 56112. | 3706. | 185.4 | 83.21 | £216. | 1824. | 6216. | 56112. | 5325. | 10.15 |
| 57760. | 3281. | 185.6 | 83.24 | 62129 | 1822. | 6212. | 57760. | 5275. | 16.7 |
| 6.3840. | 3558. | 186.4 | 83,37 | 6200. | 1818. | 6200. | 63H40. | 5077. | 19.0 |
| 65228. | 3621. | 186.6 | 83.40 | 6197. | 1817. | 6197. | 65228. | 5029. | 19.5 |
| 69920 | 3827. | 187.1 | 83.49 | 6187. | 1814. | 6187. | 69920. | 4861. | 21.2 |
| 74646. | 4035 | 187.7 | 83.58 | 6177. | 1811. | 6177. | 74646. | 4677. | 22.8 |
| 16000. | 4093 | 187.8 | 83.61 | 6175. | 18:0. | 6175. | 76000. | 4623. | 23.5 |
| 87C80. | 4352. | 188.6 | 83,72 | 6162. | 1805. | 6162. | 8208U. | 4363. | 25.2 |
| 84345. | 4450 | 184.8 | 83.76 | 6157. | 1804. | 6157. | 84385 | 4256. | 52.9 |
| 89150. | 4635. | 189.3 | 83.83 | 6150. | 1801. | 6150. | 88160, | 4 076• | 27.0 |
| 94.240 | 4855. | 1 90.0 | 83.04 | 6138. | 1797. | 6138. | 94240. | 3754. | 28.1 |
| 94468. | 4865. | 190.0 | 83.94 | 6137. | 1797. | 6137. | 94468. | 3741. | 28.8 |
| 100320. | 5097. | 9.061 | | 6126. | 1793. | 6126. | 100320- | 3398. | 30.3 |
| 104917. | 5280. | 191.1 | 84.12 | 6117. | 1790. | 6117. | 104917. | 3089. | 31.4 |
| 105400. | 5336. | 191.3 | 84.14 | 6114. | 1789. | 6114. | 106400. | 2984. | 31.7 |
| 112480. | 5569. | 192.0 | 84.24 | 6102. | 1786. | 6102. | 112480. | 2495. | 32.9 |
| 115757. | 5695. | 192.3 | 64.29 | •9609 | 1783. | •9609 | 115757. | 2176. | 33.4 |
| 118560. | 5798. | 192.6 | 84.33 | •1609 | 1782. | 6091. | 118560. | 1867. | 33,8 |
| 124640. | 6022. | 193.3 | 84.43 | 6080 | 1778. | .0803 | 124640. | 837. | 34.4 |
| 127016. | 6110. | 193.5 | 84.47 | 6076. | 1777. | 6076. | 126137. | ċ | 34.5 |
| | | | | | | | | | |

1-1011-1 / RB211-228 EFFECTIVE PERCFIVED NOISE LEVEL

| | | AREA | 0.0 | 0.08 | 0.19 | 0.61 | 1.03 | 1.51 | 2.03 | 2.05 | 2.18 | 2.75 | 3.04 | 3.27 | 3.39 |
|---|--------------|------------------------|--------|-------|-------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| | | 1/2 WEDTH | 11011 | 1033. | 1291. | 1724. | 1973. | 2221. | 2333. | 2323. | 1714. | 1434. | 1208. | 913. | • |
| MIL ES | | DISTANCE | 5515. | 6575. | 7870. | 11739. | 14913. | 18135. | 21280. | 21409. | 22326. | 27360. | 30403. | 33440. | 37168. |
| 17 3.5 N. | | œ | 1101. | 1033. | 1291. | 1758. | 2101. | 24.76. | 2751. | 2750. | 2311. | 2307. | 2305. | 2303. | 2299. |
| ELAPS, FAR 36 CUTBACK AT | 108 | 82 | 10011 | 1033. | .166 | -696 | 964. | 959. | 953. | 953. | 872. | 869 | 898 | 867. | 864. |
| MIDITY
FAR 36 | 90. FPNDB | ลี | 3100. | 3001. | 2879. | 2812. | 2791. | 2770. | 2751. | 2750. | 2311. | 2307. | 2305. | 2303. | 5508. |
| RELATIVE HUDEG. FLAPS. | LEVEL | NI /
SCR T(THE TA! | 92.41 | 92.41 | 92.43 | 47.66 | 45.95 | 51.23 | 93.51 | 63.52 | 82.48 | 82.60 | 87.48 | 82.74 | 82.86 |
| CHT, 10 | 11 351(IN | > | 156.7 | 167.1 | 174.1 | 177.9 | 178.9 | 179.9 | 183.6 | 0.001 | 181.0 | 181.7 | 1.261 | 1.62.5 | 183.2 |
| 77 DEG. | PEACF I VEU | I | ٠, | ò | 35. | 344. | 120. | 1096. | 1457. | 1472. | 1549. | 1407. | 1963. | 7114. | 2377. |
| SEA LEVEL, 77 DEG. F., 70% MAKINUM TAKEGPF WEIGHT, 10 | FFFECT IVE B | × | \$5155 | 6575. | .018. | 11745. | 16913. | 14135. | 21280. | 21 409. | 22326. | 27370. | 30407. | 33640. | ¥ 714. |

L-JOII-1 / RB211-720 FFFECTIVE PERCEIVED NOISF LEVEL SFA LEVFL, 77 DEG. F., 70% RFLATIVE HIMIDITY MAXIMUM TAKEOFF WFIGHT, 10 DEG. FLAPS, FAR 36 CUTBACK AT 3.5 N. MILES

100. EPNOB FFFCTIVE PEACETYFR WOISE LEVEL 6575. 6575. 7870. 11730. 18910.

0.00 0.00 0.00 0.00 0.25 0.35

| PAGE | | |
|----------|---|-------|
| 07-04-74 | | |
| | | |
| | Level | |
| | NOI SE | |
| | SERCE LVED | |
| | * B711-228 EFFFTIVE PFRCEIVED NOISE LEVEL | |
| | 8211-22B | 1 1 1 |
| | 1-116 | |

L-1911-1 / BB211-228 EFFFFTIVE PFRCEIVED NOISE LEVEL SFA LEVFL, /T GEG. F., TOT RELATIVE HUMIDITY MAKINUM TAKEGFF WFIGHT, IC DEG. FLAPS, FAR 36 CUTBACK AT 3.5 N. MILES

110. EPNDB

FFFETTIVE PEPEFTVFO NOISE LEVEL

| | | | N1 / | | | | | | |
|----------|------|-------|----------------|--------------|-----|------|------|-----------|------|
| w | I | > | SOR TI THE TA! | د | R2 | œ | | 1/2 WIDTH | AREA |
| 5515. | ö | 156.7 | 92.41 | 186. | 105 | 105. | | 105. | 0.0 |
| 6575. | ò | 167.1 | 92.41 | 175. | 98. | 98. | | 98• | 0.0 |
| 7870. | 35. | 174.1 | 92.43 | 168. | 94. | 136. | | 131. | 0.0 |
| 1739. | 344. | 177.9 | 92.46 | 165. | 93. | 165. | 9261 | • | 0.02 |
| | | | | | | | | | |

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L-IOII-1 / RB211-22B EFFECTIVE PERCETVED NOTSE LEVEL SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY MAKINUM TAKEOFF WEIGHT, 10 DEG. FLAPS, FAR 36 CUTBACK AT 3.5 N. MILES

EFFECTIVE PERCEIVED NOISE LEVEL 120. FPNOB

| ARE
0.00
0.00 |
|---|
| 1/2 #10TH
24.
22.
0. |
| DISTANCE 5515.
6575.
7481. |
| R 22. |
| R2
24.
22.
21. |
| R1
28.
27. |
| N1 /
SQR T(THETA)
92.41
92.43 |
| V
156.7
167.1 |
| # 00° |
| 5515.
6515.
7875. |

FACIATIUN ANGLE (THETA) 90. START: 12160. INCREMENT: 6080. MM 1N T 0. MMAX = 110000. DH = 10000. HSCL =0.000100 VM IN = 40. VMAX = 200. DV = 20. VSCL = 0.0500 DINT = WAI MUJH LAND 1/16 WEIGHT (1558.02) 018.1, 42DEG. FLAPS, DLC. 3DEG GLIDE SLOPE

0. FLAP = 42. TAMB = 77.0 VM = 0.0 W = \$58000. HP = 0. CAMMA # 0.0 DLC =1.0 DELV = 10.00 APP ENG . 228 4 1:14

| K C W C K | MAXIMUM LANDING WFIGHT (358, COOL 8.1. | 1641 (358) | COOL8.1, | 42DEG. FL | FLAPS, DLC, | 30EG | 30EG GLIDE SL | 07-0
SLOPE | 17-04-74 | PAGE | 38 |
|-----------|--|-------------|---------------|-----------|-------------|--------|---------------|---------------|-------------|-------|----|
| | PRESSURE | GE UNE TREC | TOTAL | | | | | |) I N | | |
| - | AL T. func | - | DISTANCE | _ | SPEED | MACH | TEMP | T EP R | SORTITHETAD | FLAP | |
| | (F1) | | (FT) | (16) | (KTAS) | | (DEG F) | | (PCT) | (DEC) | |
| \$0. | | | ° | _ | 152.3 | .226 | 76.8 | 1.203 | 66.27 | 42. | |
| 370. | | | 6000 | ~ | 153.0 | .228 | 15.7 | 1.205 | 66.61 | 42. | |
| 1417. | | | 26080. | _ | 155.3 | .232 | 72.1 | 1.213 | 64.19 | 42. | |
| 24c4. | | | . 0204 | _ | 157.7 | • 2 36 | 68.5 | 1.222 | 68.73 | 42 | |
| 3515. | | | 66050. | _ | 100.1 | 142. | 6.49 | 1.231 | 69.78 | 42. | |

L-1011-1 / 98211-228 FFFCTIVE PEPCEIVED NUISE LEVEL SFA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY M/XIMUM LANDING WEIGHT 1358,G00LB.), 420EG. FLAPS, DLC, 3DEG GLIDE SLOPF

| | તું
1 | 82.68 | 86.40 | 88.55 | 89.73 | 88.82 | 88 . 55 | A7.89 | 86.96 | ₹0 •98 | 85.75 | 85 , 27 | 6448 | 83.72 | 83.10 | 83.01 | 82.33 | 81.67 | 81.06 | 87.48 | 76.61 | 79.43 | 78.95 | 18.49 |
|-----------|--------------|--------|-------------|--------|--------|---------|---------|--------|--------|---------------|--------|---------|--------|---------|--------|------------|----------|-------|--------|--------|--------|---------|---------|---------|
| | Αφχ | ċ | 6080 | 12160. | 18240. | 24320. | 26080. | 30400. | 36480. | 42560. | 46080. | 48640. | 54720. | 50800 | 66080. | 6689O. | 72966. | 79040 | 85120. | 91200. | 97280. | 103360. | 109440. | 115520. |
| | œ | 1521. | 1564. | 1669. | 1823. | 2016. | 2078. | 2238. | 2481. | 2740. | 2895. | 3010 | 3290. | 3576. | 3829. | 3868. | * 1915 | 4462. | 4764. | 5068. | 5374. | 5681. | 5989. | •6629 |
| | רנו | 114.31 | 102.70 | 98.35 | 95.27 | 92.84 | 92.25 | 90.93 | 89.27 | 61.89 | 87.18 | 86.71 | 85.68 | 84.76 | 84.00 | 63.89 | 83.08 | 82.32 | 81.62 | 80.97 | 80.37 | 79.81 | 79.29 | 78.80 |
| АТН | dx (| • | 6080 | 12160. | 18240. | 24320. | 26080. | 30400 | 36480. | 42560. | 46080 | 48640. | 54720. | 60800 | 66080. | 66P40. | 72960. | 79040 | 85120. | 91200. | 97280. | 103360. | 109440. | 115520. |
| FLIGHT P | CR TC THE TA | 65.27 | 60.61 | 46.99 | 67.27 | 67.60 | 64.19 | 61.92 | 68.23 | 68.55 | 68.73 | 64.82 | 69.18 | 69.51 | 69.18 | 59.83 | 70.15 | 10.47 | 10.19 | 71.11 | 71.43 | 71.76 | 72.08 | 72.40 |
| ALONG THE | > | 152.3 | 153.0 | 153.7 | 154.4 | 155.1 | 155.3 | 155.8 | 156.5 | 157.2 | 157.7 | 158.0 | 154.7 | 159.4 | 160.1 | 100.2 | 160.9 | 161.6 | 162.4 | 163.1 | 163.9 | 164.6 | 165.3 | 166.1 |
| STARES | I | \$3. | 370. | 688. | 10061 | 1325. | 1417. | 1643. | 1961. | 2279. | 2.04. | 2598. | 2918. | 3237. | 3515. | 3557. | 3876. | .5614 | 4515. | 6F35. | 5154. | 5474. | \$193. | 6113. |
| K715F | M | 0 | cono. | 12150. | 18240. | 24 170. | 76080. | 30400. | 15460 | 42.54.0. | 46040. | 40640 | 54770. | 6.18JJ. | CADAD. | 66 B B D . | 77.91.0. | 10000 | 65170. | 91200. | 5774D. | 163360. | 103440. | 115520. |

L-1011-1 / RB211-770 EFFECTIVE PERCEIVED NOISE LEVEL SFA LEVEL, 77 DEG. F., 70% MELATIVE HUMTOITY MAXIMUM LANDING WEIGHT (358, COQLR.), 420EG. FLAPS, DLC, 3 DEG GLIDE SLOPE

BO. EPNDB

EFFECTIVE PEACETVED KUISE LEVEL

| AREA | 0.0 | 1.01 | 2.23 | 3.58 | 5.03 | 5.47 | 6.58 | 8.25 | 10.04 | 11.12 | 11.92 | 13.77 | 15.55 | 17.01 | 17.23 | 18.80 | 20-22 | 21.47 | 22.50 | 23.18 | 23.27 |
|-----------------------|-------|-------------|--------|--------|---------|--------|--------|----------|----------|--------|--------|--------|--------|------------------------|--------|--------|--------|--------|--------|--------|---------|
| 1/2 WIDTH | 2001. | 2639. | 2957. | 3209. | 3446. | 3515. | 3691. | 3956. | 4233. | 4365. | 4325. | 4163. | 3970. | 3773. | 3741. | 3454. | 3090° | 2640. | 2047. | 1098. | 0 |
| n I S T ANCE | • | 6080 | 12160 | 18240. | 24320. | 26080. | 30400 | 36480. | 42560. | 46080. | 49640. | 54720. | 60809 | • 080 99 | 66840. | 72960. | 79040. | 85120. | 91200. | 97280. | 99628. |
| α | 2002 | 2664. | 3036. | 3363. | 3692. | 3790. | 4040 | 4415. | 4807. | 5012. | 5045. | 5093. | 5122. | 5156. | 5162. | 5192. | 5211. | 5230. | 5250. | 5270. | 5290. |
| R2 | 1526. | 1533. | 1539. | 1545. | 1551. | 1553. | 1557. | 1563. | 1568. | 1571. | 1574. | 1580. | 1585. | 1590. | 1591. | 1596. | 1599. | 1602. | 1 606. | 1609. | 1612. |
| ** | 4734. | 4776. | 4816. | 4857. | 4896. | 4908 | 4934. | 4970. | 5007. | \$029. | 5045. | 5083. | 5122. | 5156. | 5152. | 5192. | 5211. | 5230. | 5250. | 5270. | 5290. |
| N1 /
SCP T(THETA) | 66.27 | 19.99 | 66.94 | 67.27 | 67.60 | 67.19 | 67.92 | 6A.23 | , ; e 99 | 68.13 | 69.84 | 69.18 | 69.51 | 64.78 | 69.43 | 70.15 | 10.47 | 10.79 | 71.11 | 71.43 | 11.76 |
| > | 152.3 | 153.0 | 153.7 | 154.4 | 155.1 | 155.3 | 155.8 | 150.5 | 157.2 | 1.57.7 | 154.0 | 156.7 | 150.4 | 160.1 | 160.2 | 160.9 | 161.6 | 167.4 | 163.1 | 163.9 | 164.6 |
| ı | 50. | 170. | C.88. | 1006 | 1375. | 1617. | 1543. | 1361. | 22.79. | 2664. | 2543. | 2918. | 3237. | 3515. | 3557. | 18 76. | .9615 | 4515. | 6435. | 5154. | 5474. |
| × | c | \$0×0° | 12160. | 14249. | 24.370. | 26040. | 30,400 | 11.4.60. | 42560 | 44080 | 40440 | 54.70 | 6.3800 | GAC BO. | \$ 8#O | 17540 | 100.0 | 45120. | 91230 | 972.0 | 101363. |

47-40-70

L.1311-1 / PA211-228 EFFECTIVE PERCEIVED NOISE LEVEL SFA LFVEL, 77 DGG, F., 70% RELATIVE HUMIDITY MAXIMUM LANDING WFIGHT (358,000L8.), 420EG, FLAPS, DLC, 3DEG GLIDF SLPPE

EFFECTIVE PFACEIVED MINISF LEVEL 90. FPND8

| | | | / I N | | | | | | |
|--------|--------|-------|-----------------|-------|------|-------|----------|-----------|------|
| ~ | 1 | > | SOP T(THF TA) | 18 | R2 | α | DISTANCE | 1/2 WIDTH | ARFA |
| • | 50. | 152.3 | £6.21 | 1775. | 763. | 1001 | • | 1000 | 0.0 |
| 6080° | 370. | 153.0 | 66.61 | 1787. | 768. | 1333. | 6380. | 1281. | 0.50 |
| 12160. | 689. | 153.7 | 66.94 | 1798. | 172. | 1606. | 12160. | 1451. | 1.09 |
| 19240. | 1.306. | 154.4 | 67.27 | 1810. | 177. | 1810. | 18240 | 1504. | 1.74 |
| 24.370 | 1225. | 155.1 | 67.60 | 1822. | 781. | 1822. | 24320. | 1251. | 2.34 |
| 76540. | 1417. | 155.3 | 61.19 | 1825. | 782. | 1825. | 26080. | 1151. | 2.49 |
| 304:00 | 1643. | 8.551 | 20.19 | 1833. | 784. | 1833. | 30400 | 813. | 2.79 |
| 364#0. | 1961 | 156.5 | 69.23 | 1845. | 788. | 1845. | 34171. | o | 2.90 |

| 7 | | |
|--|---------------------|--|
| PAGE 42 | | |
| | | AREA
0.0
0.17 |
| 07-04-74 | | DISTANCE 1/2 WIDTH 0. 374. 6060. 406. 9570. 0. |
| .IDE SLOPE | | DISTANCE
0.
6060.
9570. |
| 3 DEG GL | | 8
377•
544•
555• |
| E LEVEL
APS, DLC, | J.R | R2
270.
273.
276. |
| VED NOTSI
MIDITY
SOEG. FLU | 100. EPNDR | 81
543
549
555 |
| L-1012-1 / 98211-728 EFFECTIVE PERCETVED NOISE LEVEL
SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAXIMUM LANDING MEIGHT 1350,COCL8.), 42DEG. FLAPS, DLC, 3DEG GLIDE SLOPE | FWFL | 80RT(THFTA) R
23 £6.27 54:
0 66.61 54: |
| R 6FFEC
F., 70%
GHT 1358 | NUISF LEVEL | 18.8 K |
| 98211-276
77 DEG. 1
NDING WES | PERCEIVED | 11
50.
370. |
| L-101:-1 / 98211-776
SFA LFVFL, 77 DEG. F.
MAXIMUM LANDING WEIGH | EFFECTIVE PERCEIVED | κ
0.
6080.
12160. |

| £3 | |
|----------|-------------------------------|
| PAGE 43 | |
| 07-04-74 | |
| | #t |
| | LEV |
| | NOT SE |
| | FECTIVE PERCFIVED NOTSE LEVEL |
| | FEC TIVE |

| | | AREA
0.0
0.0 |
|--|--------------------------------|--|
| | | DISTANCE 1/2 WIDTH
0. 92.
1047. 0. |
| IDE SLOPE | | 01STANCE
0.
1047. |
| 3DEG GL | | д
105.
107. |
| LEVEL
S, DLC, | _ | R2
70•
71• |
| VED NOTSE
VIOLTY
POEG. FLAP | 110. EPND8 | 41
106.
107. |
| TIVE PERCEI
RELATIVE HUI
COOLB.1. 43 | | SQRT(THFTA) 41
5 66.27 106.
3 66.61 107. |
| FFFEC. 104 15 14T (350 L) | WUISF L | 452.3 |
| 77, DEG. 5 | FACELVED | и
50. |
| L-1011-1 / RAZIL-226 EFFECTIVE PFRCFIVED NOISE LEVEL
STA LFVEL, 77, DEG. F., 70% RELATIVE HUMIOITY
MAXIMUM LANDING MFIGHT 1350, COOLB.1, 42DEG. FLAPS, DLC. 3DEG GLIDE SLOPE | FFFETIVE PFPTEIVED NOISF LEVFL | x 0 & 0 % |

AACIATION ANGLE LIMETAD 9C. START 12160. INCREMPIT 6080. IPLIME . O ICL . O ISL . C 180TM . D NSCIND . O IPLIFT . O NSCLFT . O STO, GOO LA. LAMDING WEIGHT, 47 DEG. FLAPS, DLC, 3 DEG. GLIDE SLOPE

0. FLAP :: 42. TAMB = 77.0 APPR ENG = 278 AFF VWI = 0.0 M = 300000. HP = typep .

THT . 0. GAMMA . 0.3 DLC = 1.0 DELV = 10.03

| | | FLAP | (DEC) | 42. | 42. | 42. | 42. | 4.3 |
|------------------|--------------|-------------|---------|--------|-------|--------|----------|-----------|
| | N1/ | SCRICTMETAL | (PCT) | 61.09 | 61.42 | 62.51 | 63.65 | A4. 83 |
| | 1 | LEPR | | 1.170 | 1.172 | 1.179 | 1.186 | 103 |
| SLOPE | 1 | TEMP | (Dec r) | 76.8 | 15.7 | 72.1 | 6A.5 | 6.44 |
| 2013 | • | T T | | 01 7 . | .212 | .216 | . 2 20 | 700 |
| DLC. 3 DEG. | 1 | SPEED | (KTAS) | 141.6 | 142-2 | 144.4 | 146.6 | 14.8 |
| FLAPS, ULL. | | _ | | | | 10366. | | |
| 42 DEG. F. | TOTAL | CISTANCE | (23) | • | 60BO. | 26080. | 6 6C 8G. | A S C H O |
| to Mi ICAII. | CEOME IRIC T | ALTITUDE | (FT) | \$0. | 370. | 1417. | > + 64. | 1515 |
| · LAMBING | PRESSURE G | ALTI FUDE | () 1) | - | 158. | 1369. | 2 3 5 G | 1134 |
| rated to take in | | | | | | 1417. | | |

07-04-74

| | | | 0. 80.91 | | | | | | | | ## | 83. | | 82. | 82. | | | | | | | |
|--|------------------------|------------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|--------|-----|
| SLOPE | | × | ċ | 608 | 1216 | 1824 | 2432 | 2608 | 3040 | 3648 | 4256 | 4608 | 7984 | 5472 | 60.80 | 6603 | 6688 | 1296 | 7904 | 8512 | 9120 | 000 |
| GL 10E | | œ | 1521. | 1564 | 1609. | 1875. | 2010. | 2078. | 2238. | 2481. | 2740. | 2395 | 3010. | 3290. | 3576. | 3829. | 3868. | 4164. | 4462. | 4764. | 5008. | |
| ., 3 DE6. | | רכר | 112.67 | 101.09 | 96.85 | 93.80 | 91,39 | 18.06 | 89.50 | 81.19 | 86.36 | 85.62 | 85.13 | 84.06 | 83.11 | 82.34 | 82.23 | 81.45 | 80.74 | 30.10 | 19.61 | 1 (|
| FLAPS, DLC, | АТН | d× (| | 6080 | 12160. | 18246 | 24320. | 26080. | 30400 | 36480. | 42560. | 46080. | 48640. | 54720. | 60800 | 66080. | 66880. | 72960. | 79040. | 35120. | 41200. | 1 |
| (/ DEG. F. O. RELATIVE HUMIDI.
. LANDING WEIGHT, 42 DEG. FLAPS, | ALCING THE FLIGHT PATH | N1 /
SOR T(THE TA) | 61.09 | 61.42 | 61.75 | 62.08 | 62.42 | 62.51 | 62.76 | 63.11 | 64.45 | 63.65 | 63.40 | 64.16 | 64.52 | 64.83 | 64.88 | 65.24 | 65.60 | 96.59 | 66.32 | |
| MEIGHT. | ALONG THE | | 141.6 | 142.2 | 142.9 | 143.5 | 144.2 | 144.4 | 144.9 | 142.5 | 146.2 | 140.6 | 146.9 | 147.6 | 149.2 | 148.8 | 148.9 | 149.6 | 150.3 | 151.0 | 151.7 | |
| . LANDING | LEVFLS | I | £0. | £ 70. | 688. | 1006. | 1325. | 1417. | 1643. | 1961. | 22.19. | 2454. | 2598 | 2918. | 3237. | 3515. | 3557. | 3476. | 4196. | 4515. | 435. | |
| 000 18. | NO 15 F | × | 0 | 6680. | 12160. | 19240. | 24320. | 26080. | 30400. | 36480. | 42560. | 46630. | 43640. | 54720. | 40800. | 64680. | 60.8PC. | 11560. | 799.40. | 45120. | 91230. | 1 |

| 44 | |
|----------|--|
| 4 | |
| <u> </u> | |
| 0 | |

| L-1311-1 / RBZ11-ZZ9
SEA LFVEL, 37 OFG. F.
300,000 SA. LANDING A | 77 0FG. | : \ | TOT RELATIVE HINCELVED TOT RELATIVE HUMIDE IGHI, 42 DEG. FLAPS. | VED NOISE
HIDITY
APS, DLC, | . LEVEL | GL 10F SL | SLUPE | | |
|--|-------------|---------|---|----------------------------------|---------|-----------|----------|-----------|-------|
| ffffct IVF | PFRCETVED | JS 1 DN | LEVEL | 80. EPNDB | 90 | | | | |
| | | • | / IN | | ; | • | | | |
| × | I | > | OR TETHETA | | R2 | « | DISTANCE | 1/2 M10TH | ARFA |
| •
• | 50. | 9.141 | 61.09 | 4 | 1429. | 1865. | ċ | 1865. | 0.0 |
| ACRO. | ,076 | 142.2 | 61.42 | 4 | 1436. | 2468. | 6080° | 2440- | 0.94 |
| 17160. | 588. | 142.9 | 61.19 | 4261. | 1442. | 2811. | 12160. | 2726- | 2.01 |
| 14240. | 1306. | 143.5 | 62.08 | 4294. | 1448. | 3122. | 18240 | 2956- | 3.30 |
| 76330. | 1325. | 144.2 | 74.29 | 4327. | 1454. | 3446. | 24320. | 3181. | 4.64 |
| 25040. | 1417. | 3.551 | 62.51 | 4330. | 1456. | 3545. | 26080. | 3249. | 5.05 |
| 30400 | 1643. | 144.4 | 62.76 | 4361. | 1461. | 3799. | 30400 | 3426. | 90.9 |
| 16460. | 1461. | 145.5 | 63.11 | 4306. | 1468. | 4179. | 36480. | 3690. | 7.64 |
| 47550. | 22.79. | 146.2 | 63.45 | 4432. | 1475. | 4432. | 42560. | 3801. | 9.21 |
| 44,000. | 2444. | 146.6 | 63.65 | 4453. | 1479. | 4453. | 46080. | 3709. | 10.22 |
| 4.1640. | 2598. | 146.5 | 63.80 | 4469. | 1482. | 4409. | 48640. | 3636. | 10.89 |
| 54.720. | 2718. | 147.6 | 64.16 | 4507. | 1489. | 4507. | 54720. | 3435. | 12.43 |
| 6A8900. | 37.17. | 148.2 | 64.52 | 4545. | 1497. | 4545. | 60800 | 3190. | 13.88 |
| 61.030. | 3516. | 156.8 | 64.83 | 4579. | 1503. | 4520 | 66086. | 2935. | 15.04 |
| 6. Fut. | 3557. | 146.9 | 64.48 | 4584· | 1504. | 4584- | 66880. | 2892 | 15.21 |
| 1.563. | 39.76. | 145.6 | 65.24 | 4620. | 1512. | 4626. | 72960. | 2525. | 16.39 |
| 12643. | 4150. | 150.3 | 65.60 | 4671. | 1519. | 4671. | 79040. | 2053. | 17.39 |
| #% 130. | 4515. | C. 151 | 94.59 | 4716. | 1526. | 4716. | 85120. | 1361. | 18.13 |
| 91270. | 44 15. | 151.1 | 66.32 | 4761. | 1534. | 4761. | 89575. | • | 18.35 |
| | | | | | | | | | |

L-1011-1 / #6211-22# EFFECTIVE PERCEIVED NOISE LEVEL S'4 LFVEL, 77 DEG. f., 10% RELATIVE HUMIDITY 3 7,000 LM. LANDING WITCHT, 42 DEG. FLAPS, DLC, 3 DEG. GLIDE SLOPE

EFFECTIVE PFRESTVED MITSE LEVEL 90. EPNDB

| | AREA | 0.0 | 0.45 | 00.1 | 1.57 | 2.05 | 2.16 | 2.29 |
|------|-----------------|-------|-------------|--------|--------|---------|--------|--------|
| | 1/2 W TOTH | 606 | 1166. | 1340. | 1264. | 948. | 811. | • |
| | DISTANCE | • | 6080 | 12160. | 18240. | 24320. | 26080. | 30394. |
| | Œ | 911. | 1223. | 1507. | 1616. | 1629. | 1633. | 1643. |
| | 82 | . 169 | 695. | 700. | 705. | 709. | 711. | 714. |
| | - | 1577. | 1590. | 1603. | 1616. | 16791 | 1633. | 1643. |
| \ ~~ | SON TO THE TA) | 60.19 | 54.19 | 61.75 | 62.08 | 62.42 | 62.51 | 67.76 |
| | > | 141.6 | 142.2 | 6.271 | 143.5 | 144.2 | 3.35 | 144.9 |
| | 1 | , US | 170. | | 10.36 | 55.61 | 1411 | 1641. |
| | 94 | , 6 | 40m0 | 12160 | .0445 | 26.120. | 26080. | 33400. |

07-04-74

1-1311-1 / PB211-22A FFFECTIVE PERCFIVED NOISF LEVEL SFA LFYEL, 77 AFG. F., 704 RELATIVE HUMIDITY 104,000 19. LANDING WEIGHT, 42 BEG. FLAPS, DLC. 3 DEG. GLIDF SLOPE

DISTANCE 1/2 W.DTH
0. 314.
6080. 259.
7667. 0. 718. 451. 458. 82 224. 227. 230. 4566. 451. 458. SCR T(THFTA)
-6 51.09
-2 61.42 ELFECTIVE DEBCETAND MOTSE LEVEL V 141.6 142.2 147.9 60°04 40°0.

100. FPNNA

AREA 0.0 0.13 C.14

L-1011-1 / 4#211-728 EFFECTIVE PERCETVED NOISF LEVEL SEA L'EVEL, 77 DEC. F., 70% RELATIVE HUMIDITY INO.GNO LP. LAMFING WEIGHE, 42 OFG. FLAPS, DIC. 3 DEG. GLIDE SLUPE

110. FPNDR EFFECTION PRACETAND AUTSELEVEL

ARE A 0.0 0.00 DISTANCE 1/2 MIDTH 0. 64. 602. 0. 82 58. 91. 92. 83. N1/ v \$00 Tf fef f A1 141.6 61.05 142.2 61.42 # 50 50 50 50

PAGIATION ANGLE LIMETA! 90. Stable 12160. Incamente £080. IPLING * O ICL # O ISL # C IBOTH # O NSCLND # O IPLIFT # O NSCLFT # O MAX LANDING WIIGHT (15%, CGO LB.), 33 DEG. FIAPS, DLC, 3 DEG. GLIDE SLUPE

0. FLAP = 33. TANB = 77.0 APPH FMG +278 OFF VMI = 0.0 M = 358000. MP H TYPED .

Tif . C. GAMMA . 0.0 DLC =1.0 DELV = 10.00

| X LANDI | IAX LANDING WFICHT | - | \$58,000 LM.), 33.0EG. FLAPS, DLC. | EG. FLAP | S. DLC. | 3 DEG. | GLIDE SLCPE | 07-04-74 | **- | PAGE | 25 |
|----------|--------------------|------------|------------------------------------|----------|---------|--------|-------------|----------|--------------|-------|----|
| | | GFONF TRIC | TOTAL | | | | | | 712 | | |
| <u> </u> | AL TITUDE | AL TI TUDE | DISTANCE | THRUST | SPEED | MAC | TEMP | I EP R | SORT (THETA) | FLAP | |
| | (FT) | (FT) | (FT) | (81) | (KTAS) | | (DEG F) | | (PCT) | (DEC) | |
| \$0. | 4 B. | 50. | ċ | 10481. | 257.4 | .234 | 76.8 | 1.176 | 62.32 | 33. | |
| 370. | 158. | 170. | 6080° | 10481. | 158.1 | .235 | 15.7 | 1.178 | 62.66 | 33. | |
| 1417. | 1365. | 1417. | 260AC. | 10481. | 160.5 | .240 | 72.1 | 1.185 | 63.80 | 33. | |
| 2464. | 7 1.0. | 2466. | 460 50. | 10491 | 162.9 | .244 | 68.5 | 1.192 | 16.49 | 33. | |
| 1515. | 1356. | 1515. | 66940. | 13681 | 165.4 | 240 | 64.0 | 1.200 | 66.18 | 7 | |

PAGE

L-1011-1 / RB211-229 EFFECTIVE PERCEIVED NOISE LEVEL SEA LEVEL, 77 DEC. F., TOK RELATIVE HUMIDITY MAI LANDING MEIGHT 1358,COO LB.1, 33 DEG. FLAPS, DLC, 3 DEG. GLIDE SLUPE

| | 15.7 | 96.08 | 84.78 | 87.01 | BA . 22 | 87.30 | 87.02 | 86.34 | 85.40 | 64.50 | 84.01 | 83.66 | 82.89 | 82.13 | 81.53 | 81.44 | 60.19 | 80.20 | 19.65 | 79.13 | 78.64 | 79.10 |
|-----------|--------------|--------|--------|--------|---------|----------|--------|--------|--------|---------|--------|--------|----------|--------|--------|----------|--------|--------|----------|---------|---------|---------|
| | d d X | 0 | 6080 | 12160. | 18240. | 24320 | 26080. | 30400. | 36483. | 42560. | 46080. | 48640. | 54720. | 6C800° | 66080. | 66880. | 72960. | 79040 | 85120. | 91200. | 97290. | 1032601 |
| | œ | 1521. | 1564. | 1669. | 1823. | 2016. | 2078. | 2238. | 2481. | 2740. | 2895. | 3010 | 3290. | 3576. | 38.29. | 3868. | 4164. | 4462. | 4764. | 5068 | 5374. | 56.91 |
| | ונו | 112.69 | 101.11 | 96.84 | 93.79 | 91.38 | 90.80 | 69.49 | 87.80 | 86.37 | 85.65 | 85.16 | 11.50 | 83.18 | 82.43 | 82.32 | 81.55 | 80.85 | 80.21 | 79.62 | 19.08 | 78.58 |
| PATH | ~ | | | | | | | | | | | | | 60803. | | | | | | | | _ |
| FIICHT | SOR TI THE T | 62.32 | 42.66 | 63.00 | 63.35 | 63.70 | 63.80 | 64.05 | 64.41 | 64.77 | 16.49 | 65.13 | 65.49 | £5.86 | 66.18 | 66.23 | 66.40 | 65.40 | 67,33 | 67.70 | 68.07 | 4.4.43 |
| ALUNS THE | > | 157.4 | 158.1 | 156.8 | 150.5 | 160.3 | 160.5 | 141.0 | 141.8 | 162.5 | 162.9 | 163.2 | 164.0 | 164.8 | 165.4 | 165.5 | 166.3 | 167.1 | 167.8 | 168.6 | 169.3 | 1 70 1 |
| S TENETS | = | 50. | 170. | 688. | 1006. | 1325. | 1417. | 1643. | 1961 | 2279. | 2464. | 2548. | 2918. | 12 17. | 3515. | 3557. | 3£ 76. | .9614 | 4515. | 48 35 | 5156. | C4 74 |
| * 11 SE | × | c | 6030. | 12166. | 16740. | 24 > 20. | 26080. | 30400. | 16430. | 4254.0. | 45080. | 49640. | \$4.720. | 6)300. | 65080. | 66 A 80. | 12560. | 79040. | 85 120 · | 91 200. | \$7280. | 101166. |

| ERCHIVED | 401SE | VFL | 80. EPNN | ac | | | | |
|----------|--|-----------------------|----------|---|--|--|--|--|
| I | ў
> | N1 /
CR T(THE TA) | 8 | R2 | α | DISTANCE | 1/2 WIDTH | AREA |
| 50. | 157.4 | 62.32 | 3950. | 1329. | 1753. | 0 | 1752. | 0.0 |
| 370. | 156.1 | 62.66 | 3981. | 1335. | 2338. | 6080. | 2308. | 0.89 |
| CAS. | 158.8 | 63.00 | 4014. | 1341. | 2676. | 12160. | 2586. | 1.95 |
| 10:15. | 150.5 | 63.35 | 4046. | 1348. | 2990. | 18240. | 2816. | 3.13 |
| 1325. | 160.3 | 63.70 | 4079. | 1354. | 3322. | 24320. | 3046. | 4.41 |
| 1417. | 160.5 | 63.40 | 4089. | 1356. | 3424. | 26080. | 3117. | 4.80 |
| 1643. | 161.0 | 64.05 | 4114. | 1361. | 3686. | 30400. | 3300. | 5.19 |
| 1901. | 161.8 | 64.41 | 4148. | 1368. | 406.7 | 36 4H 0. | 3563. | 7.29 |
| 2219. | 167.5 | 64.17 | 4184. | 1374. | 4184. | 42560. | 3508. | 8.83 |
| 2464. | 167.9 | 26.97 | 4204. | 1378. | 4204. | 46080. | 3407. | 9.71 |
| 2598. | 163.2 | 65.13 | 4721. | 1381. | 4221. | 48640. | 3327. | 10.32 |
| 2914. | 164.0 | 65.6) | 4263. | 1366. | 4263. | 54720. | 3108. | 11.73 |
| 37.57. | 164.8 | 65.86 | 4305. | 1395. | 4305. | 60800 | 2838. | 13.02 |
| 3515. | 165.4 | 60.18 | 4342. | 1401. | 4342. | •00099 | 2550. | 14.04 |
| 3551. | 165.5 | 46.23 | 434B. | 1402. | 4348. | 66880. | 2501. | 14.19 |
| 18 16. | 166.3 | 29.99 | 4391. | 1410. | 4391° | 12960. | 2064. | 15.18 |
| 4196. | 167.1 | £6.96 | 4435. | 1417. | 4435. | 79040 | 1437. | 15.95 |
| 451 c. | 167.8 | 67.33 | 4419. | 1424. | 4419. | 84329. | • | 16.22 |
| | ERCFIVED 33 70. 11 10.05. 110. | 6.0 MO | * | NOISE LEVEL 80. NI / NI / RI 157.4 62.32 3950 158.1 62.66 3981 158.9 63.00 4014 159.5 63.34 4040 160.5 63.00 4089 161.0 64.05 4114 162.5 64.17 4184 162.5 64.77 4205 163.2 65.13 4201 165.6 66.23 4348 166.3 66.60 4301 165.5 66.23 4348 166.3 66.60 4301 167.1 66.96 4301 | NOISE LEVEL NI / NI / SGR IT THE TAI 157.4 62.32 158.9 63.35 160.3 63.35 160.3 63.35 161.0 64.05 161.0 64.05 162.5 64.17 162.5 64.17 162.5 65.13 164.0 (5.49 165.6 60.18 165.6 60.18 165.7 66.50 165.1 66.90 167.1 66.90 | NOISE LEVEL BO. EPNDB NI/ NI SQRITTHETAI RI 157.4 62.32 3950. 158.9 63.35 4014. 159.5 63.35 4014. 160.5 63.35 4014. 160.5 64.35 4014. 161.0 64.35 4114. 162.5 64.41 4148. 162.5 64.47 426. 163.2 65.13 4221. 164.0 (5.49 426.) 165.5 66.23 4348. 165.5 66.50 4435. 167.8 67.33 4479. | WDISE LEVEL 80. EPNDB NI/ 157.4 CZ.32 3950. 1329. 1581. 158.9 63.00 4014. 1341. 1351. 159.9 63.00 4014. 1341. 159.9 63.00 4014. 1341. 159.9 63.00 4014. 1341. 159.9 63.00 4014. 1341. 1351. 160.3 64.05 4114. 1361. 1361. 167.9 64.05 4114. 1361. 1361. 167.9 64.07 4264. 1374. 1381. 165.9 65.13 426.9 1395. 165.9 66.50 4395. 165.9 66.50 4395. 1610. 167.8 67.33 4479. 1427. | NOISE LEVEL BO. EPNDB NI/ NI/ NI/ SGRITTHETAI RI R2 155.4 157.4 62.32 1960. 1329. 1753. 158.9 158.1 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 160.3 180.9 180 |

| EFFECTIVE PERCTIVED NOTSE LEVEL | NOTSE C | EVFL | 90. EPNDB | | EFFECTIVE PERCETUED NOTSE LEVEL 90. EPNDB | | | |
|---------------------------------|---------|-------------|-----------|-------|---|----------|-----------|--------------|
| 11 | > 4 | SQRT(THETA) | 8 | R2 | œ | DISTANCE | 1/2 KIDIH | AREA |
| \$ 70. | 1.00 | 62.36 | | 648. | 861. | 0 | 860. | 0-0 |
| 6817. | 158.8 | 00,14 | 1 547. | -759 | 1168 | 6080 | 1108. | 0.43 |
| 1001 | 159.5 | 56.4.7 | 1525 | 627 | 1401 | 12160. | 1288. | 0.95 |
| 1325. | 160.3 | 63.70 | 1538. | . 700 | 1620 | 18240 | 1146. | 1.48 |
| 1417. | 160.5 | 63.80 | 1542 | 668. | 1542 | 24320 | 182. | 06.1 |
| 1643. | 161.0 | 64.05 | 1552. | 671. | 1552. | 28586. | *600 | 1.05
2.05 |

L-1311-1 / AP211-22B EFFECTIVE PRECEIVED NOISE LEVEL SFA LFVEL, 77 SFG. F., 70% RELATIVE MUMIDITY MAX LARDING METGHT (358,000 LB.!, 33 DEG. FLAPS, DLC, 3 DEG. GLIDE SLUPE

01STANCF 1/2 HIDTH 0.303. 6080. 227. 7328. 0. R 307. 434. 440. R2 215. 218. 221. 100. FPNDB R1 428. 434. SGR T(THF TA) 62-32 62-66 63-00 EFFECTIVE PERCEIVED NOISE LEVEL V 151.4 158.1 370. x c. 6080. 17160.

AREA 0.0 0.12 0.13

| PAGE | | |
|--|--|---|
| | | AREA
0.0 |
| 07-04-74
GLIDE SLOPE | | DISTANCE 1/2 WIDTH |
| DEG. (| | 8 80 ° |
| LEVEL
DLC, 3 | | R2
56. |
| L-1011-1 / RB711-22R EFFECTIVE PERCEIVED NOISE LEVEL
SFA LEVEL, 77 DFG. F., 70% RELATIVE MUNIDITY
MAK LANDING WEIGHT (350,CCO LB.), 33 DEG. FLAPS. DLC. 3 DEG. GLIDE SLOPE | FFFFCTIVE PFPCEIVED MOISF LEVFL 110. EPNDB | N1/
N V SORT(THETA) R1
0. 50. 157.4 62.32 80.
6080. 370. 158.1 62.66 81. |

PACIATION ANGLE (THETA) 9C. START# 12160. INCREMENT# 6080. IPLTUD = 0 ICL = 0 ISL = 0 IROTH = 0 NSCLND = 0 IPLTFT = 0 NSCLFT = 0 MAX LAKDING WI., 42 DEG. FLAPS, DLC, 6/3 DEG. TWO SEGMENT AT 1000 FT.

0. FLAP = 42. TAMB = 77.0 TYPEP . APPR FNG =228 OFF VMI = 0.0 W = 358000. HP =

THT = 1000. GAMMA = 6.0 DLC = 1.0 DELV = 10.00

| FC 30 W. | FLAP
(DFG)
42.
42.
42. |
|----------------|--|
| | 16PR SQRITHETA) 6
1-203 66-27 4
1-205 66-61 4
1-210 67-27 4 |
| 1000 FT. | 166 F1 75.7 73.6 73.6 |
| TWO SEGMENT AT | SPEED MACH
182-3 -226
153-0 -228
154-4 -230
154-4 -230 |
| DEC. | TMBUST
(EB)
12292-
12292-
12292-
5856-
5856- |
| 30 325 6 5/3 | 107A:
157A:
171:
0.6000.
18116. |
| | 670M6 12 12 12 12 12 12 12 12 12 12 12 12 12 |
| | ## ## \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| | \$0.
1000.
1000.
1000. |

XPP 0. 6080. 112160. 18116. 18117. 18240. 24320. 36480. 42560. L-JUII-1 / RR211-228 EFFECTIVE PERCEIVED NGISF LEVEL SEA LEVFL, 77 DEG. F., 70% RELATIVE HUMIDITY MAX LANDING WT., 42 DEG. FLAPS, DLC, 6/3 DEG. TMG SEGMENT AT 1000 FT. R 1521. 1664. 1819. 1819. 1827. 2245. 2749. 3301. 114.31 162.70 98.35 98.35 89.38 89.28 89.08 82.18 xP 6080. 12160. 18116. 18117. 18240. 33490. 42560. POISE LEVELS ALONG THE FLIGHT PATH SQR T(THF TA) 3 66.27 0 66.61 7 66.94 17 66.94 17 60.94 1.4 50.80 1.4 51.32 1.4 51.84 8.9 52.35 H 50. 370. 688. 1000. 1013. 1652. 2291. 2730. x 0. 6080. 112160. 18116. 18116. 1840. 24320. 30400.

LSL 82.68 86.40 88.55 89.75 84.03 84.03 77.20

L-1011-1 / # 0211-228 EFFECTIVE PFREEIVED NOISE LEVEL SEA LFVEL. 77 DFG. F., 70% RELATIVE HUMIDITY MAK LANDING UT., 42 DEG. FLAPS, DLC, 6/3 DEG. TWO SEGMENT AT 1000 FT.

EFFECTIVE PEACFIVED NOISF LEVEL 80. EPND8

1/2 WIDTH 2001. 2639. 2957. 3204. 2256. 2450. 1882. 515. DISTANCE 0. 12160. 18116. 18117. 18240. 24320. 36480. 2002. 2664. 3036. 3357. 2460. 2473. 2955. 2975. 1526. 1533. 1533. 1545. 1042. 1044. 1046. 4134. 4734. 4817. 7945. 2946. 2955. 2965. 808 T(THETA) 66.27 66.61 66.54 66.54 50.75 50.75 51.37 51.85 52.35 200 - 100 - 50. 50. 666. 1000. 1010. 1452. 72741. K 6080. 12160. 14116. 14117. 19240. 24370. 30400.

FFFECTIVE PEPCETVEN NOTSE LEVEL

| | | CE 1/2 WIDTH 1000. 1281. 1451. 1509. |
|--|---------------------------------|---|
| 30 FT. | | DISTANCE 0. 0. 6080. 12160. 18116. |
| NT AT 100 | | 1001-
1333-
1606-
1810- |
| THO SEGNE | 0.0 | R2
163.
168.
172. |
| UNIDITY
6/3 BEC. | 40. EPND8 | 1775-
1787-
1799-
1810- |
| IPS. DLC. | 1 3 4 5 | 808 11 THE TA) • 5 66.2 1 • 66.6 1 • 7 66.9 4 |
| 7 10% F | S MOTSE LE | 154.23.03
154.23.03
154.23.03 |
| 77 DEG. | Prace IVE | 40.
370.
666. |
| L-1011-1 / RB211-225 FTFC-11VE HUNIDITY
SFA LFVEL, 77 DEG. F., 70% RELATIVE HUNIDITY
MAX LAMPING MI., 42 DEG. FLAPS, DLC. 6/3 DEC. TWO SEGNENT AT 1000 FT. | EFFECTIVE PFRCEIVED NOISE LEVEL | 8
0
0
0.0
0.0
0.0
0.1
0.1
0.1 |

AREA 0.0 0.50 1.09

| L-1011-1 / 48211-22A EFFETIVE PFPCEIVED NOISE LEVEL
SFA LEVEL, 77 OFG. F., 708 BFLATIVE HIMIOITY | | 07-04-14 | PAGE 63 | 63 |
|---|----------|----------|---------|----|
| MAX LANDING MT., 42 DFG. FLAPS, DLC. 6/3 DEG. THO SEGMENT AT | 1000 FT. | | | |
| EFFECTIVE PERCEIVED MUISG LEVEL 100. EPNDB | | | | |

| | ARFA | 0.0 | 0.17 | 0.22 |
|------------------------------|------------------------|-------|-------|-------|
| | 1/2 WIDIH | 374. | 406. | o |
| | DISTANCE | 0 | 6080 | 9571. |
| | œ | 377. | 549. | 555. |
| œ | 23 | 270. | 273. | 276. |
| 100. EPNDB | 2 | 543. | 549. | 555. |
| | N1 /
SOP T(THF TA) | 46.27 | 66.61 | 46.94 |
| 1 981014 | > | 152.3 | 153.6 | 153.7 |
| FCTIVE PERCEIVED MUISG LEVEL | z | 50. | 370. | 686. |
| 3AI 134: | * | ċ | 6040. | 2160. |

L-1011-1 / AB211-22B EFFECTIVE PFPCEIVED NUISF LEVFL SFA LIVFL, 77 DEG. F., 70% RELATIVE HUNIDITY MAX LANDING WI., 42 DEG. FLAPS, DLC, 6/3 DEG. TWC SEGMENT AT 1000 FT.

EFFECTIVE PERCEIVED NOTSE LEVEL 116. EPNDB

AREA 0.0 0.00 DISTANCE 1/2 MIDTH 0. 92. 1047. 0. 8 105. 107. 70. 71. 106. NI / V SCR II THF FA I 152-3 66-27 153-0 66-61 × 60 × 0.0

5-80

PACE

| HUMFOFTY
, DBA | 0 |
|--|--|
| SE LEVEL
RELATIVE | 1 IFPNL = |
| 70 A-NO! | |
| 1-1011-1 / 98211-220 A-NOISE LEVEL STA L'VEL, 77 FIG. 1., 70K RELATIVE HUMIDITY A - NUISE LIVELS 08A | The state of the s |
| S. A. 2 | į |

| 51 24 25 CE | 200. | 176. | 300. | 1600. | 3200. | 6400. | 12800. |
|------------------|-------------|---------|------------------|-----------------|-------|-------|--------|
| 45.000 | 31 61 | | 3 | | | | |
| 00000 | 61.71 | K3.21 | 14.60 | | 51.81 | 42.78 | 37.50 |
| | 13.61 | 69.63 | 15.01 | | 50 63 | | |
| 60.0000 | 51.76 | 04 21 | | | | 77.44 | 34.30 |
| A.7 1.3230 | | 3 4 6 6 | *** | | 54.54 | 45.86 | 36.24 |
| | K P. P. P. | 44.54 | 74.06 | | 55.28 | 26.60 | 17 17 |
| ひかって・・・ | 56.15 | 60, 72 | 70.05 | | | | |
| 2 | 7 | 4 1 7 2 | | | 61.00 | 40.14 | 33.16 |
| A. 3 | | | 9
9
9
9 | | 57.78 | 49.30 | 39.93 |
| Day | ~ 6 . 7 | 62 . 54 | 14.28 | | 50.76 | 61. | |
| 67 100 | 101,06 | 7.1.73 | 777 | | | | 60.00 |
| 2000 | | | 21.6 | | *** | 50.05 | 43.63 |
| | V3 - 20 1 | ~) · q. | [6°,5# | | 43.70 | 6.0 | |
| 300 | A 1 1 2 C 8 | 6.4 4.0 | | | | 70.40 | 40.64 |
| | • | • | 7.00 | | 63.46 | 54.43 | 45.29 |
| 11/2011/11/11/11 | | | 2 2 2 2 | \$ 17 E 17 E 17 | | | |
| 5 6 . 7 350 | 56.74 | 20 00 | | WOW TO THE SE | | | |
| | | | 3 | 14.52 | 65.87 | 56.13 | 44. A7 |
| | 11:15 | 2. | 5.6.5 | 75.64 | 7. | | |

46 . 42 49 . 16 49 . 02 51 . 69 53 . 56 57 . 48 57.33 58.71 59.45 60.24 61.92 64.05 65.84 66.92 68.20 68.89 69.66 71.24 73.25 75.05 75.64 76.97 77.66 79.97 79.97 81.84 83.56 65.08 65.08 86.80 86.57 68.07 69.73 99.10 53.30 54.60 56.24 57.71 99.19 100.65 49.30 300.30 100.46 132.76 105.05 106.65 63, 1300 67, 1000 71, 1000 73, 1000 63, 1000 63, 1000 63, 1000 63, 1000 5-81

119. 90. 100. 7.0 STHABLE BARTS

SACIATIN AYGIF (THETA) 9C. Stable 21270. Enfarments goad.

TAMB = 77.0 FLAP : 10. 0.0 CBFAC # 0.0 • 0.0 W = 430000. HP St DPF = 6.0 FFAC = 1.0 CBHT Vir E FAKE FAS AZZA UPF 0.0 " 1334 D.1 . 20 * didal

DEL V2 = 10.0

PAGE

| 150021 | | | | | | | | | | |
|--------------|------------|---------------|--------|--------|-------------|---------|----------|---------|-----------|---------|
| 13.9 | 60303. | | 0 | 2.0 | **0 | | | | | |
| | | • | 40203. | 33050. | 28029. | | | | | |
| | | 2 630. | 36393. | 31644. | 27578. | | | | | |
| | | 1000 | 16599 | 30233. | 26524. | | | | | |
| | | 6000 | 34621. | 28860. | • | | | | | |
| | | ACOO. | 33190. | 27526. | ~ | | | | | |
| | | 100001 | 31561. | 26306. | 23219 | | | | | |
| 1. 02 | 60303. | | 0.0 | 0.2 | 5. 0 | | | | | |
| • | | 9 | 38620. | 31100. | 400 | | | | | |
| | | 2000 | 16350. | 29800. | 608 | | | | | |
| | | .000 | 34650. | 28600. | 500 | | | | | |
| | | 6000 | 33080. | 27250. | 23900. | | | | | • |
| | | #000# | 11520. | 26350 | 2850 | | | | | |
| | | 100001 | 30000 | 24900 | 21950. | | | | | |
| 77.8 | 60303. | | 0.0 | 0 | 0 | | | | | |
| | | ċ | 36033. | 921 | 25258 | | | | | |
| | | 200€. | 34432. | 079 | 24241. | | | | | |
| | | 4000 | 37890. | 26910. | 23449. | | | | | |
| | | 6000 | 3136. | 25647. | 2.2448. | | | | | |
| | | 8000. | 29400 | 4585 | 21430. | | | | | |
| | | 100001 | 26479, | 73401. | 20524. | | | | | ٠ |
| נו ז | 2.0300 | 2.165 | 0 | .3330 | 2.4120 | 2.5050 | | | | |
| 0) 1) | 11008.3002 | 0.0 | 4 | 0000 | 10.3000 | 18.0000 | 000 | 27.0000 | 33,0000 | 000 |
| | 0.7000 | 0.0437 | | .0563 | 0.0602 | O | 0 | 0.0840 | 0.0992 | 119 |
| 5- | C. #G07 | 0.0526 | | 0540 | 0.0673 | | .081 | 0.0902 | 0.1048 | 0.1249 |
| 8 | 0.9003 | 0.043 | | .0733 | 0.0759 | 0.0841 | • | 0.0976 | 0.1118 | 0.1317 |
| 2 | 0.000.1 | 4.50.0 | | 0x38 | 0.0856 | .0942 | 0.0988 | 0.1062 | 0.1209 | 0-1404 |
| | 1.1000 | 0.0433 | | 6760 | 0.3991 | 0.1055 | S 50 2 0 | 0.1168 | 0.1320 | 0.1518 |
| | 1.2000 | 0.116 | | 0.1103 | 0.1129 | 0.1185 | 0.1219 | 0.1291 | 0.1443 | 0.1643 |
| | 1.1000 | 0.1500 | | .1268 | 0.1283 | 0.1328 | 0.1395 | 97116 | 0.1578 | 0.1780 |
| | 1 . 4000 | 0.2030 | | .1454 | 0.1455 | 7651.0 | 0.1522 | 0.1589 | 0.1732 | 0.1929 |
| | 1.5000 | 0057.0 | | 1991 | 0.1648 | • 166 | 0.1696 | 0.1763 | 0. i 895 | 0.2090 |
| | 0009.1 | 7 | | .1880 | .18 | .186 | 0.1840 | 0.1951 | © ₹ 0.7 € | 0.2257 |
| | 1.7609 | 30.6.0 | | .7100 | .208 | 0.2086 | 0.2107 | 0.2151 | 0.2257 | 0,2440 |
| Ct. At. F | 8008.0300 | 0.0 | 4 | ,000. | 10.000 | 18.0000 | 22.0000 | 25,0000 | 33,0000 | 000 |
| | 0.4.000 | 3.9200 | 4 | 0004. | 3.2000 | 1.7000 | • | O | 0.0 | -1.3000 |
| | 0.6060 | 6.3000 | • | . 1000 | 5.3000 | 3.6000 | 3.0000 | 2.5000 | 1.5000 | 0.7000 |
| | 0.8000 | 8.5000 | • | . 3000 | 7.3000 | 5.5000 | • | | 3.5000 | 2.7000 |
| | 1.0000 | 11,000 | 7 | | 4.3000 | 7.5000 | • | 6.3000 | 2.4000 | 4.5000 |
| | 1.2000 | 13.5000 | | | 11.5000 | 9.5000 | 8.8000 | ٠ | 7.4000 | |
| | 1.4300 | 16.000 | _ | 7000 | 13.6000 | 11.6000 | 11.0000 | ċ | 0005.6 | • |
| | 1.0000 | 1 A. SCOU | - | | 15.8000 | 3.60 | 13.4000 | 12.5000 | 11.5000 | 10.5000 |
| | 1.80.30 | 21.4000 | 07 | 2000 | 18.3000 | • 80 | 15.3000 | • | 13. 7000 | • |
| | | | | | | | | | | |

5-82

| | • | | | | | 07-04-74 | 2 |
|------|-----------------|-----------------|----------|---------|---------|----------|---|
| • | 0.0004.0000 | 0.1.00 | 0000 | 0.1000 | 0.4000 | 0003 | |
| | 4300.0000 | 4.0540 | 1.0680 | 1.0770 | 1.0810 | 1.0830 | |
| | \$000.000\$ | 1.0850 | 1.1000 | 1.1150 | 1.1190 | 1.1220 | |
| | 8000.0000 | 1.1140 | 1.1320 | 1.1440 | 1.1530 | 1.1580 | |
| | 10000.0000 | 1-1450 | 1.1630 | 1.1760 | 1.1860 | 1.1940 | |
| | 12300.0061 | 1.171C | 1.1930 | 1.2100 | 1.2210 | 1.2260 | |
| | 1 6000.0000 | 1.2000 | 1.2240 | 1.2430 | 1.2550 | 1.2600 | |
| | 16203.0000 | 1.2560 | 1.2540 | 1.2750 | 1.2880 | 1.2940 | |
| | 1 80 00 . 601.0 | 1.2550 | 1.2850 | 1.3060 | 1.3210 | 1.3280 | |
| | 20000,0000 | 1.2010 | 1.3140 | 1.3400 | 1.3550 | 1.3630 | |
| | | 0111.1 | 1.1470 | 1.3720 | 1.3890 | 1.3970 | |
| | 24303.0000 | 1.3440 | 1.3950 | 1.4060 | 1.4230 | 1.4320 | |
| | \$6000.0000 | 1.3760 | 1.4110 | 1.4400 | 1.4580 | 1.4650 | |
| | 2 #000.000#2 | 1.4666 | 1.4450 | 1.4740 | 1.4930 | 1.5000 | |
| | 10000.0000 | 1.4350 | 1.4780 | 1.5070 | 1.5260 | 1.5330 | |
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| | MERTHUM | MAKINUM TANEOFF WEIGHT (430,000LA.), 10 'FG. | ie ICHT | (430.0 | JOOL A. | .), 10 | | FLAPS. | FLAPS, TAKEOFF | THRUST | | 07-04-74 | | PAGE | 10 | | | |
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PAGE

L-1011-1 / PE211-228 A-NOISE LEVEL STA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKEGIF WEIGHT (433,000LR.), 10 DFG. FLAPS. TAKEOFF THRUST

| | רצו | 75.01 | 75.01 | 77.60 | 81.27 | 83.38 | 83.86 | 82.47 | 82.26 | 81.06 | 79.70 | 79.53 | 78.42 | 77.23 | 77.11 | 76.02 | 24.90 | 74.86 | 73.87 | 72.93 | 72.90 | 72.00 | 71.26 | 71.16 | 70.37 | 69.80 | 69.63 | 68.93 | 69.50 |
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| | APP | 5515. | 6575. | 7870. | 11739. | 14751 | 17777. | 20819. | 21280. | 23877. | 26950. | 27360. | 30039. | 33143. | 33440. | 36.262. | 39397. | 39520. | 42547. | 45600. | 45712. | 48892. | 51680. | 52087. | 55297. | 57760. | 5H522. | .61761. | 63840. |
| | œ | 1520. | 1520. | 1520. | 1558. | 1676. | 1856. | 2080. | 2117. | 2334. | 2610. | 2647. | 2897. | 3193. | 3221. | 3494. | 3797. | 3809. | 4102. | 4397. | 4408. | . 4712. | 4977. | 5016. | 5318. | 5547. | 5618. | 5915. | 6104. |
| | 101 | ***** | ***** | 123.37 | 101.81 | 94.63 | 90.21 | 87.03 | 86.63 | 84.46 | 82.26 | 82.00 | 14.08 | 78.82 | 78.68 | 77.42 | 76.04 | 76.04 | 14.86 | 73.80 | 73.76 | 72.74 | 71.93 | 71.81 | 70.95 | 70.33 | 70.14 | 64.39 | 68.94 |
| PATH | dx f | 5515. | 6575. | 7870. | 11739. | 14751. | 17777. | 20819. | 21280. | 23877. | 26953. | 27360. | 30039. | 33143. | 33440. | 36252. | 19397. | 39520. | 42547. | 45603. | 45712. | 48892. | 51680. | 52047. | 55297. | 57760. | 58522. | 61761. | 63840. |
| FLIGHT
NI/ | SCR TE THE TA | 15.56 | 92.41 | 92.43 | 92.65 | 95.94 | 12.55 | 93.48 | 93.52 | 93.75 | 10.96 | 40.46 | 44.25 | 74.45 | 24.52 | 44.14 | 66.96 | 55.00 | 45.24 | 65.65 | 95.50 | 95.74 | 96.59 | 66.36 | 42.46 | 96.43 | 66.49 | 96.74 | 96.90 |
| ALONG THE | > | | 167.1 | 174.1 | 177.9 | 178.9 | 179.8 | 180.7 | 183,8 | 181.6 | 182.5 | 1.67.7 | 183.5 | 1 54.4 | 164.4 | 185.3 | 181.2 | 186.2 | 167.1 | 187.9 | 180.0 | 168.5 | 189.6 | 189.7 | 9.061 | 191.3 | 191.5 | 192.4 | 192.9 |
| LFVFLS | I | ċ | 0 | 35. | 344. | 706. | 1065. | 1470. | 1474. | 1773. | 2121. | 2167. | 2467. | 2809. | 2140 | 3146. | 3460. | 3443. | JR 10. | 41.26. | 4137. | 4460. | 4139. | 4780. | 5000 | 5334. | 5408. | 5717. | 5015. |
| K 115F | × | 95155 | A 975. | 7870. | 11739. | 14751. | 17777 | 23619. | 21.240. | 21877. | 76550. | 27360. | 30039 | 23143. | 33440. | 35262. | 39 347. | ¥1520. | 47547 | 456133. | 45717. | 48692. | \$1 6 S.C. | 57077. | 55.24.7. | \$1760. | CA 5/2. | 417612 | 63840. |

L-1011-1 / 3211-22d A-NOISE LEVEL SER LEVEL, 7 DEG. F., 70% RELATIVE FUMIDITY MAXIMUM TAKEGE WEIGHT 1430,000LH-1, 10 DEG. FLAPS, TAKEOFF THRUST

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| 日本日本日本日本日本日本日本のは、今日の日本のは、今日の日本のは田田の日田のは中のは「「「」」、「」、「」、「」、「」、「」、「」、「」、「」、「」、「」、「」、「 | | • | 4516. | 23817. | 4154. | 4.32 |
| 日日 自分の対応を対応をとれるというとうというというというできるののののかのは、アラウィウンルバアで対応のソウト・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ | | | 4865. | 26950. | 4378. | 5.26 |
| | - | • | 4913. | 27360. | 4 40.9 | 5.39 |
| | | • | 5236. | 30039 | 4619. | 6.26 |
| | | • • | 5453. | 33143. | 4674. | 7.29 |
| ###################################### | | 14 | 5453. | 33440. | 4655. | 7.39 |
| ************************************** | | 1-9 | 5454 | 36262. | 4456. | 8-31 |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | - | | 5456. | 39397. | 4202. | 62.6 |
| ###################################### | _ | • | 5456. | 39520. | 4191. | 9.32 |
| | • | . • | 5457. | 42547. | 3907. | 10.20 |
| 200 200 200 200 200 200 200 200 200 200 | | 14 | 5450. | 45600. | 3575. | 11.02 |
| | | 14 | . 6545 | 45712. | 3561. | 11.05 |
| 183.6 | | • | 5460. | 44992. | 3150. | 11.82 |
| 193.6 | | • | 5462. | 516HJ. | 2715. | 12.40 |
| 197.6 | • | • | 5462. | 52087. | 2643. | 12.48 |
| 191.3 | • | 1~ | 5463. | 55297. | 1970. | 13.01 |
| | | • | 5465- | 57760. | 1186. | 13.29 |
| 191.5 | | • | 3465. | 58525 | 787. | 13.34 |
| 192.4 | - | • | 5466. | 59122. | • | 13.36 |

80. UEA

\$ 1 m 115E LEWELS

| | AKE | 0.0 | 0.09 | 0.20 | 99.0 | 1.03 | 1.47 | 1.93 | 2.00 | 2.36 | 2072 | 2.76 | 2.05 | 2.97 |
|-----|----------------|-------|-------|-------|--------|---------|--------|-----------|---------|--------|--------|----------|---------|-----------|
| | HIGHE 2/1 | 1139. | 1139. | 1380. | 1744. | 1926. | 2111. | 2108. | 2012. | 1875. | 1410. | 1339. | 646. | • |
| 1 | DISTANCE | 5515. | 6575. | 7870. | 11734. | 14751. | 17777. | 20819. | 21.280. | 23477. | 26953. | 27360. | 30034. | 30801. |
| ; | ¥ | 1139. | 1139. | 1381. | 1777. | 2051. | 2365. | 2542. | 2542 | 2545. | 2547. | 2548. | .0852 | 2552. |
| ; | R.2 | 1139. | 1139. | 1139. | 1130. | 1141. | 1142. | 1143. | 1143. | 1144. | 1145. | 1145. | 1146. | 1147. |
| : | ₹ | 2531. | 2531. | 2531. | 2533. | 2536. | 2539. | 25.42. | 7542. | 2545. | 2547. | 25%# | 2550. | 2552. |
| 111 | SCA 16 THE 145 | 57.41 | 42.41 | 97.43 | 97.16 | 95.56 | 93.28 | 51.18 | 43.52 | 61.75 | 94.01 | 94,04 | 57.95 | 64.45 |
| | > | 1.961 | 167.1 | 174.1 | 177.9 | 170.9 | 170.0 | 1 نهر ، ١ | 1 th. C | 141.6 | 167.5 | 1 02 1 | 101.5 | 1 4 4 . 4 |
| | = | Ġ | ò | | 164. | 106. | 1065. | 14.70. | 1274 | 1173. | 21.21. | 2167. | 7461. | 3 5 F F F |
| | ** | 55155 | 6575. | 1870. | 11719. | 14 711. | 11111 | 73519. | 21 200° | 23617. | 36920 | 77 36 D. | 500 12. | 11141. |

L-1011-1 / RB211-22A A-NOISE LEVEL SEA LFVFL, 7? DFG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKENFF WFIGHT (430,000LB.:, 10 DEG. FLAPS, TAKEOFF THRUS

| | | AREA | 10.0 | 0.05 | 0.11 | 0.53 | 0.51 | 0.62 | 0.43 | 7000 |
|--|-----------|-----------|---------|-------|-------------|--------|---|-------|---------|--------|
| | | 1/2 WIDTH | 595. | 595. | 718. | B74. | 822. | 211. | c | • |
| JST | | DISTANCE | 5515. | 6575. | 7870. | 11739. | 14751. | 17777 | | 11422 |
| TAKEOFF THRUST | | | | | | 939 | | | | |
| FLAPS, TAK | | 82 | 595. | 595 | 595 | 965 | 597. | 508 | | 2665 |
| HDITY
DEG. FL | 90. DBA | 8 | 1079. | 1079. | 1079 | 1081 | 1083 | 1086 | 000 | 1058. |
| 70% RELATIVE HUMIDITY
(430,000LB.], 10 DEG. | | NI/ | 92.41 | 92.41 | 92.43 | 92.64 | 45.66 | 0.00 | 13.64 | 93.48 |
| # 70% H | | > | 156.7 | 167.1 | 1 76 - 1 | 177 0 | 0 0/1 | 1000 | 2 2 2 0 | 180.7 |
| 77 0FG. F
EOFF WFEG | LEVELS | 3 | | | ָּ
טְּעָ | | • • • • | • 000 | 1002 | 1420. |
| SEA LEVEL, 77 DEG. F., MAXIMUM TAKENFF WEIGHT | A - NUISE | , | . 4 1 4 | 4676 | | • 000 | • | **** | 1111. | 20819. |

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5 | | |
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| | | ARFA
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| FLAPS, TAKEOFF THRUST | | 862.
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| MIDITY
O DFG. FI | 100. Nea | 412.
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| L-IDII-: / REZII-Z/S A-MOISE LFVEL
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MAXIMUM 14KEDFF WEIGHI 1430, COOLR.1, 10 DFG. A | | N1 /
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| RRZ11-7/4
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EDS F WE 10 | 5 13451 | 35. |
| L-1911-5 /
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MAXSPUM 14X | 13A31 3516% - 4 | \$515.
\$515.
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\$1174. |

74-70-10

t - 1311-1 / MAZII-228 A-NOISE LEVEL Sia ievei, 77 ofg. f., 7cm relative huminity Miximum takenff #fig4t 1430,030LB.), 10 deg. Flaps, takeoff thrust

A - WHISE LEVELS 110. DBA

| - m 9 | 25. | 177.9 92.63 |
|-------|-----|-------------|

DACIATION ANGLE (THETA) 9C. STAPT= 21240. INCREMENT= £0110. INTERESTRICT OF THE TRANSPORT OF STANDED FOR THAUST TO SCIET TO STANDED THAUST

DEL V2 = 10.0 0. FLAP = 10. TAMB = 77.0 0.0 CBFAC = 0.0 TYPED . TAKE FRG 1225 OFF WHI + 0.0 W = 350000. HP = : 1.0 4(C1 + 0.0 SLUPE + 0.0 TFAC = 1.0 CBHT =

| 1181 (KTAS) (DEG) (DEG) (DEG F) (PEG F) (PCT) 12872 | NO.000 LB. TARENFY
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| 533 ISA+ 10.0 DEG C. RB.211-22B BLEED OFF 32879. 138.4 .206 ************************************ | 11.05 ALTITUOF 01SY | AL11100F 015VANG | OISTANC
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(PCT) | A) KUC
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| 12879, 138,4 , 206 | 1CHT 350C00. | 350000. | | 1EPR= | 7. | 13 ISA | 2 | DEG C+ | ₫. | 211-22 | BL EED | _ | | ; | • | • |
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| 31833 165.4 244 165.4 245.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 165.4 246.8 31.53 93.2 36.8 < | o, | o ; | | | | 32322 | 15. | .224 | * | * * * | * * * | 77-0 | 1.522 | 92.42 | * | <u>.</u> |
| 11,172, 162, 162, 246 10.9 20.6 169 73.3 1528 95.2 2839. 30,167, 167, 167, 251 10.9 20.3 163 69.9 1.536 93.93 2778. 29,74, 170, 1.255 10.9 20.1 160 68.3 1.539 94.27 2778. 29,74, 170, 1.255 10.9 20.0 157 66.7 1.542 94.61 2714. 29,249, 171, 2.251 10.9 19.8 154 65.1 1.546 95.30 2649. 28,652, 173, 2.261 10.9 19.8 154 61.9 1.553 95.64 2617. 28,657, 174, 7.263 10.9 19.5 148 61.9 1.553 95.64 2617. 28,657, 177, 0.268 10.9 19.1 143 58.9 1.559 95.30 2649. 27,746, 177, 0.268 10.9 19.1 143 58.9 1.559 95.64 2517. 27,746, 177, 2.70 10.9 19.1 143 58.9 1.559 96.66 2522. 27,75, 173, 1.270 10.9 18.7 135 54.4 1.568 97.35 24.8. 26,752, 181,6 274 10.9 18.5 132 53.0 1.571 97.72 24.28. 26,752, 181,6 280 10.9 18.7 135 54.4 1.568 97.35 24.8. 26,752, 181,6 280 10.9 18.1 125 48.8 1.581 98.91 23.97. 25,746, 187, 2.287 10.9 18.1 1.25 48.8 1.581 98.92 23.9. 25,746, 187, 2.287 10.9 18.1 1.25 48.8 1.581 98.92 22.83. 25,747, 184,3 2.249 10.9 17.7 11.9 44.7 1.591 100.14 22.57. | , the state of the | , , , , , , , , , , , , , , , , , , , | | | | . 1833. | | | | | | | 7.20 | 46.44 | | : |
| 11/10.1 16/10.5 16/10.5 16/20.5 <t< td=""><td></td><td></td><td>•</td><td></td><td></td><td>31333</td><td></td><td></td><td></td><td></td><td></td><td>200</td><td>• 25 • 1</td><td>72.03</td><td></td><td>2 9</td></t<> | | | • | | | 31333 | | | | | | 200 | • 25 • 1 | 72.03 | | 2 9 |
| 30.6.7. 10.7. 20.3 -10.6 7.53. 93.93 2778. 30.3.5. 164.9 20.3 -16.3 64.9 1.53.9 94.27 2778. 29.3.5. 10.9 20.1 -16.3 64.9 1.54.2 94.61 2778. 29.2. 17.2 -25.7 10.9 20.0 -151 66.7 1.54.2 94.61 2776. 276.1 2778. 274.2 274.61 2778. 289.5 17.6 -25.7 10.9 19.6 -151 65.1 1.54.6 94.61 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.1 276.2 | 1,533. | 1,523 | | | | 9101g | | | 5 . | 50.05 | 6 | (303 | 276 | 73.50 | 6634 | 2 : |
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| 29574. 170.1 255 10.9 20.1 157 66.7 15.37 94.61 2714. 29289. 171.2 255 10.9 20.0 154 66.7 1552 94.61 2714. 29289. 173.6 257 10.9 19.6 1154 66.7 1559 95.30 2649. 2867. 177. 2583 10.9 19.6 116. 1556 95.96 2541. 28303. 175.0 258 10.9 19.1 145 60.4 1.559 95.64 2617. 2796. 177.0 258 10.9 19.1 149.1 149.2 1.559 96.32 2554. 2796. 177.0 19.0 19.1 140.0 140.1 140.0 | , 500 S | , 50° | - | | | 303625 | | | 6.01 | 20.3 | 601. | 7.0 | 966-1 | 43.43 | 2118. | <u>.</u> |
| 29289. 172.4 259 10.9 19.8 1154 65.1 1.546 94.95 2649. 28955. 173.5 .26.1 10.9 19.6 .154 65.1 1.546 94.95 2649. 28955. 173.6 .26.3 10.9 19.6 .168 60.4 1.556 95.98 2547. 28303. 17.0 .26.8 10.9 19.1 .145 60.4 1.556 95.98 2587. 27946. 1770 .26.8 10.9 19.1 .140 57.4 1.556 96.95 2552. 27946. 1770 .270 10.9 19.1 .140 57.4 1.562 96.95 2552. 27042. 179.3 .272 10.9 18.7 .137 55.9 1.569 97.35 24.80 26473. 180.4 .276 10.9 18.4 .130 51.6 1.571 97.72 24.8 26473. 182.0 10.9 18.4 .130 51.6 1.571 98.11 2367. 26473. | 7440. 2525. 20227. | 2525. 20221. | 20227 | | | 206.24 | | 667. | 0.01 | 100 | 091. | 66.3 | 1.542 | 17.46 | 27140 | |
| 28955. 173.5 .261 10.9 19.6 .151 63.5 1.559 95.30 2649. 28303. 17.0 .263 10.9 19.5 .148 61.5 1.556 95.98 2517. 28303. 17.0 .265 10.9 19.1 .145 60.4 1.556 95.98 2517. 27436. 177.0 .268 10.9 19.1 .140 57.4 1.559 96.32 2554. 27436. 173.1 .270 10.9 19.1 .140 57.4 1.562 96.66 2552. 2745. 179.1 .277 10.9 18.7 .137 55.9 1.562 97.00 24.91. 2776. 180.4 .276 10.9 18.7 .132 53.0 1.571 97.72 24.28. 26473. 182.8 10.9 18.4 .130 51.6 1.574 98.11 239.7 26473. 183.8 .280 10.9 18.1 .127 50.1 1.574 98.31 2311. 25461. | 3400. 26004. 1 | 3400. 26004. 1 | 26004. | Ξ | 0.15 | 9249 | 172.4 | 259 | 6.01 | 8.61 | 154 | 65.1 | 1.546 | 94.95 | 2681. | 9 |
| 28627. 174.7 .263 10.9 19.5 .148 61.5 1.553 95.64 2617. 28303. 175.8 .265 10.9 19.1 .145 60.4 1.556 95.98 2586. 27936. 177.0 .268 10.9 19.1 .145 60.4 1.556 95.98 2586. 27936. 177.0 .268 10.9 19.1 .140 57.4 1.559 96.32 2552. 27745. 179.1 .277 10.9 18.7 .137 55.9 1.568 97.35 2491. 27742. 180.4 .276 10.9 18.7 .132 53.0 1.571 97.72 24.8 26473. 182.7 .278 10.9 18.4 .130 51.6 1.574 98.11 2397. 26473. 183.8 .280 10.9 18.4 .127 50.1 1.574 98.11 2317. 2541. 184.9 .282 10.9 18.1 .127 47.4 1.584 99.3 2218. | 3919. 28926. | 28976. | 28976. | = | 4.6 | 28955. | 173.5 | . 26.1 | 10.9 | 19.6 | .151 | 63.5 | 1.549 | 95.30 | 2649. | 10. |
| 28303. 175.8 .265 10.9 19.3 .145 60.4 1.556 95.98 2586. 27936. 177.0 .268 10.9 19.1 .143 58.9 1.559 96.32 2552. 27379. 170.1 .270 10.9 18.0 .137 57.4 1.562 96.66 2552. 27379. 177.1 .272 10.9 18.7 .137 57.9 1.568 97.35 2491. 26702. 181.6 .276 10.9 18.6 .132 53.0 1.571 97.72 24.8 26473. 182.7 .276 10.9 18.4 .130 51.6 1.571 97.72 24.8 26473. 182.8 .280 10.9 18.4 .130 51.6 18.11 2347. 25922. 184.9 .282 10.9 18.1 .127 50.1 1.576 98.51 23.57 2561. 185.0 18.0 18.1 .127 47.4 1.587 99.33 22.87 2561. 185.0 | | . 1664. | . 1664. | | 0.67 | 28627. | 114.7 | .263 | 6*01 | 19.5 | . 148 | 5.19 | 1.553 | 45.64 | 2617. | 10. |
| 27946. 177.0 .268 10.9 19.1 .143 58.9 1.559 96.32 2554. 27875. 179.1 .270 10.9 19.0 .140 57.4 1.565 96.66 2522. 27349. 179.3 .272 10.9 18.6 .137 55.9 1.565 97.00 2491. 26702. 180.4 .274 10.9 18.7 .135 55.9 1.566 97.35 2491. 26473. 181.6 .274 10.9 18.4 .130 51.6 1.571 97.72 2480. 26473. 182.7 .278 10.9 18.4 .130 51.6 1.574 98.11 2397. 26473. 183.8 .127 50.1 1.576 98.51 2357. 25922. 184.9 .282 10.9 18.1 .125 48.8 1.576 98.51 2311. 25641. 186.9 .18.1 .18.3 .18.1 .18.9 .47.4 1.584 99.73 22813. 25164. 186.9 . | 4.821 . 34P.22. | 34622. | 34622. | _ | 30.6 | 28303. | 175.8 | .265 | 6.01 | 19.3 | • 145 | 4.09 | 1.556 | 95.98 | 2586. | 10. |
| 27,75. 173.1 .270 10.9 19.0 .140 57.4 1.562 96.66 2522. 27,149. 187.2 10.9 18.8 .137 55.9 1.565 97.30 2491. 26,702. 180.4 .274 10.9 18.7 .135 55.9 1.568 97.35 2460. 26,73. 181. .274 10.9 18.4 .130 51.6 1.571 97.72 24.60. 26,73. 181. 10.9 18.4 .130 51.6 1.574 98.11 2347. 26,13. 183.8 .280 10.9 18.1 .127 50.1 1.578 98.51 2347. 25,52. 184.9 .282 10.9 18.1 .125 48.8 1.581 98.92 2339. 25,54. 186.0 .284 10.9 18.0 .129 47.4 1.584 99.73 2283. 25,54. 184.2 .247 10.9 17.7 .119 44.7 1.594 100.54 2257. 24,74. 185.6 10.9 17.6 .117 43.3 1.594 100.54 2232. 25,74. 186.4 .291 10.9 | 5264. 37400. | 37400. | 37400. | | 6.67 | 27936. | 177.0 | .208 | 10.9 | 1.61 | • 143 | 58.9 | 1.559 | 96.32 | 2554. | 01 |
| 27349. 179.3 .272 10.9 18.8 .137 55.9 1.565 97.00 2491. 27062. 180.4 .274 10.9 18.7 .135 54.4 1.568 97.35 2460. 26762. 181.6 .276 10.9 18.7 .132 53.0 1.571 97.72 2428. 26473. 182.7 .276 10.9 18.4 .127 50.1 1.574 98.11 2397. 25473. 183.8 .280 10.9 18.3 .127 50.1 1.576 98.51 2397. 2561. 184.9 .282 10.9 18.0 .125 46.8 1.584 99.33 22167. 25651. 186.0 .284 10.9 17.9 .121 46.0 1.584 99.33 2213. 25661. 187.2 .247 10.9 17.7 .119 44.7 1.591 100.14 2257. 24974. 189.4 10.9 17.7 .119 44.7 1.591 100.54 2257. 24974. 180.5 17.5 .117 43.3 1.594 100.54 2232. 24701. 190.5 .293 10.7 | • | 40197. | 40197. | ~ | 56.9 | 27575. | 1.071 | .270 | 10.9 | 19.0 | .140 | 57.4 | 1.562 | 96.66 | 2525 | ġ |
| 27062. 180.4 .274 10.9 18.7 .135 54.4 1.568 97.35 24.60. 26752. 181.6 .276 10.9 18.5 .132 53.0 1.571 97.72 24.28. 26473. 182.7 .276 10.9 18.4 .130 51.6 1.574 98.11 23.97. 254193. 183.8 .280 10.9 18.1 .127 50.1 1.576 98.51 23.67. 25522. 184.9 .282 10.9 18.1 .125 47.4 1.584 99.33 2311. 25641. 185.0 .284 10.9 17.9 .121 46.0 1.584 99.33 2211. 25645. 185. 18.1 .17.9 .121 46.0 1.584 99.33 2211. 2565. 184. 10.9 17.7 .119 44.7 1.591 100.14 2257. 2497. 189.4 .291 10.9 17.5 .117 43.3 1.594 100.54 2232. 24701. 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | A154. 43413. | 4 3413. | 4 3413. | ĭ | 6.39 | 27319. | 1.79.3 | .272 | 10.9 | 16.8 | .137 | 55.9 | 1.565 | 97.00 | 2491. | <u>.</u> |
| 26762. 181.6 -276 10.9 18.5 -132 53.0 1.571 97.72 2428. 26473. 182.7 -278 10.9 18.4 -130 51.6 1.574 98.11 2397. 26193. 183.8 -280 10.9 18.1 -127 50.1 1.581 98.51 2397. 25922. 184.9 -282 10.9 18.1 -125 48.8 1.581 98.51 2337. 25641. 186.0 -284 10.9 18.0 -123 47.4 1.584 99.33 2311. 25648. 187. -287 18.9 18.9 17.9 -121 46.0 1.587 99.73 22.83. 25656. 184.3 -287 10.9 17.7 -119 44.7 1.591 100.14 22.57. 24701. 190.5 -293 10.9 17.5 -115 42.0 1.597 100.94 2207. | . 500. 46849. | 46846 | 46846 | _ | 6.6 | 27062. | 180.4 | .274 | 6.01 | 18.7 | .135 | 54.4 | 1.568 | 97,35 | 5460. | 10. |
| 26473. 182.7 .278 10.9 18.4 .130 51.6 1.574 98.11 2397. 26193. 183.8 .280 10.9 18.3 .127 50.1 1.578 98.51 2367. 25922. 184.9 .282 10.9 18.1 .125 48.8 1.581 98.92 2339. 25641. 186.0 .284 10.9 18.0 .121 46.0 1.587 99.33 2311. 25408. 187.2 .284 10.9 17.9 .121 46.0 1.587 99.73 22.83. 25164. 189.4 .291 10.9 17.7 .119 44.7 1.591 100.14 2257. 24701. 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | A562. 49903. | A562. 49903. | 49933. | | 0 · 5 | 26762. | 181.6 | •276 | 10.9 | 18.5 | .132 | 53.0 | 1.571 | 97.72 | 2478. | 0 |
| 26193. 183.8 .280 10.9 18.3 .127 50.1 1.576 98.51 2367. 25922. 184.9 .282 10.9 18.1 .125 48.8 1.581 98.92 2339. 25661. 186.0 .284 10.9 18.0 .123 47.4 1.584 99.33 2311. 25461. 185.2 .247 10.9 17.7 .121 44.7 1.591 99.73 2283. 25164. 189.4 .291 10.9 17.7 .119 44.7 1.591 100.14 2257. 24979. 189.4 .291 10.9 17.5 .115 42.0 1.597 100.94 2207. | 1150. 52471. | 1150. 52471. | \$ 2471. | | 43.0 | 26473. | 182.7 | .278 | 6.01 | 18.4 | • 130 | 51.6 | 1.574 | 98.11 | 2397. | <u>.</u> |
| 25922. 184.9 .282 10.9 18.1 .125 48.8 1.581 98.92 2339. 25651. 186.0 .284 10.9 18.0 .123 47.4 1.584 99.33 22311. 25651. 185.2 .247 10.9 17.9 .121 46.0 1.587 99.73 2283. 25164. 185.3 .249 10.9 17.7 .119 46.7 1.591 100.14 2257. 24979. 189.4 .291 10.9 17.5 .117 43.3 1.594 100.54 2232. 24701. 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | 7ecs. \$607c. | 7ecs. \$607c. | \$6070. | ~ | 0.00 | 26193. | 183.8 | .280 | 10.9 | 18.3 | • 127 | 50.1 | 1.578 | 98.51 | 2367. | 10. |
| 25651, 136.0 .284 10.9 18.0 .123 47.4 1.584 99.33 2311.
25436, 187.2 .247 10.9 17.9 .121 46.0 1.587 99.73 2283.
25164, 188.3 .289 10.9 17.7 .119 44.7 1.591 100.14 2257.
24979, 189.4 .291 10.9 17.6 .117 43.3 1.594 100.54 2232.
24701, 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | | 5 51 62. | 5 51 62. | ~ | 6.61 | 25922. | 6. 481 | .282 | 6.01 | 18.1 | . 125 | 48.8 | 1.581 | 98.92 | 2339. | 0. |
| 25436. 187.2 .247 10.9 17.9 .121 46.0 1.587 99.73 2283. 25164. 188.3 .289 10.9 17.7 .119 44.7 1.591 100.14 2257. 24979. 189.4 .291 10.9 17.6 .117 43.3 1.594 100.54 2232. 24701. 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | 4310. 6616. 42313. 7 | 47 413. | 47 413. | ^ | 29.9 | 5661 | 136.0 | .284 | 10.9 | 18.0 | .123 | 4-1.4 | 1.584 | 99.33 | 2311. | 0. |
| 25164. 188.3 .289 10.9 17.7 .119 44.7 1.591 100.14 2257. 24979. 189.4 .291 10.9 17.6 .117 43.3 1.594 100.54 2232. 24701. 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | time. | 9613. 6'vat. 2. | time. | ~ | 37.9 | 5438 | 187.2 | .247 | | 17.9 | 121 | 46.0 | 1.587 | 99.13 | 2283. | 10. |
| 24974, 189.4 .291 10.9 17.6 .117 43.3 1.594 100.54 2232.
24701, 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | 9465. 68631. | 9465. 68631. | 68631. | .4 | 249.9 | 25164. | 198.3 | .249 | 10.9 | 17.7 | •119 | 4 | 1.591 | 100.14 | 2257. | <u>.</u> |
| 24701. 190.5 .293 10.9 17.5 .115 42.0 1.597 100.94 2207. | 91c1. flein. | 47et. 71818. | 71818. | • | 6.652 | 54924. | 189.4 | 167. | 10.9 | 17.6 | .117 | 3 | 1.594 | 100.54 | 2232. | 10. |
| | 10176. 75323. | 10176. 75323. | 15021. | ••• | 269.4 | 24 701. | 190.5 | .293 | 10.9 | | 1115 | | 1.597 | 100.94 | 2207. | 10. |

PAGE

L-1011-1 / 48211-228 A-NUISE LEVEL SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY 15C.CCG LR. TAKFOFF MEIGHT, 10 DEG. FLAPS, TAKEOFF THRUST

| • | į | 717 | 3 | | ć | 3 | |
|-------|---|-------------|--------|-----------|-------|--------|-------|
| > ; | Š | 11 THE 14 1 | 4 6 | 111 | ¥ 6 | 7 | L 5L |
| 36 | | 45.54 | 3283. | * * * * * | 1520. | 3283. | 12.01 |
| 121 | | 25.45 | 4102. | ***** | 1520. | 4102. | 75.01 |
| 16. | | 44. 25 | 507A. | 123.37 | 1520. | 5078. | 17.60 |
| 165 | | 17.43 | 8904. | 96.39 | 1631. | 8904 | 82.65 |
| 165 | | 11.70 | 11705. | 90.02 | 1867. | 11705. | 83.79 |
| 167. | | 51.57 | 14526. | 85.93 | 2185. | 14526. | 81.87 |
| 169, | | 63.63 | 17366. | 85.68 | 2552 | 17366. | 19.91 |
| 7.7. | | 1 6. 22 | 20227. | 80.12 | 2948. | 20227. | 78.21 |
| 176. | | 66.35 | 21260. | 79.31 | 3096. | 21280. | 77.60 |
| 171. | | 94.68 | 23107. | 78.02 | 3359. | 23107. | 76.55 |
| 177. | | 40.00 | 26006. | 76.16 | 3779. | 26006. | 74.97 |
| 177. | | 55.11 | 27360. | 75.36 | 3975. | 27360. | 74.29 |
| 173.5 | | 55.30 | 28926. | 74.48 | 4204. | 28926. | 73.54 |
| 1 74. | | 95.64 | 31854. | 73.01 | 4630. | 31304. | 72.24 |
| 175. | | 55.82 | 33440. | 72.29 | 4856. | 33440. | 71.59 |
| 175. | | 55.48 | 34872. | 71.69 | 5035. | 34872. | 71.05 |
| 177. | | 96.32 | 37800. | 70.51 | 5479. | 37800. | 96.69 |
| 177. | | 66.59 | 19520. | 69.88 | 5721. | 39520. | 69.38 |
| 1 /A. | | 96.66 | 40797. | 69.69 | 5901. | 40797 | 95.89 |
| 7 | | 4: | | | | | 600 |

E-1011-1 7 AB211-224 A-NUM SE LEVEE SEA LEVEL, TY MEG, E., TOT RELATIVE HUMIDITY ISF, GER ER, TAKEME MEJGHI, TO DEC. FLAPS, TAKEUPE THHUST

1/2 MIDTH 2090. 2090. 2090. 3000. 3417. 3755. 4034. 4715. 4718. 4718. 4718. 4718. 4718. 4718. 4718. 4718. 4718. 4718. 4718. 4718. DISTANCE 3233. 4102. 5078. 11705. 11705. 14526. 17366. 20227. 21730. 21730. 217340. 217340. 33440. 33440. 8 2090. 2090. 2090. 3909. 3909. 4329. 64491. 55456. 55456. 55466. 55466. 42 2090. 2090. 2090. 2092. 2093. 2098. 2098. 2100. 2101. 2102. 2103. 2105. 2105. 2105. 81 56440. 56440. 56440. 56440. 56451. 56551. 56551. 56551. 56651. 56660. 56661. SIJAHI JIIIN -

The state of the s

PAGE

L-1311-1 / RB311-228 A-MOISE LEVEL SEA LEVEL, 77 DEC. F., 70% RELATIVE HUNIDITY 150,000 LB, TAKFOYF WFIGHT, 10 OFC. FLAPS, TAKEUFF THKUST

STANTE FLAFES

80. DAA

| AREA
0.0
0.0
0.03
0.16
0.60
1.42
1.97 |
|--|
| 1/2 WIDTH
1139.
1139.
1380.
1874.
2122.
2001.
151G.
350. |
| DISTANCE
3283.
4102.
5378.
8904.
11705.
17366.
20227.
20376. |
| 1139.
1139.
1139.
1381.
1965.
2543.
25543.
2556. |
| R2
1139-
1139-
1140-
1142-
1145-
1145-
1146- |
| 2 - 81
2-31
25-31
25-31
25-31
25-35
25-45
25-46
25-46
25-50 |
| 5CK TC TWF TA
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94.24 |
| ###################################### |
| 2 |
| 4 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

| 1011-1 / RB711-220 A-MOISE LEVIL
SEE LEVEL, T. DEG. F., TOT RELATIVE HUMIDITY
150,000 1A. TAKEOFF WFIGHT, 10 DEG. FLAPS, TAKEOFF THRUST |
|---|
| HUMIDIT |
| LATIVE
O DEG. |
| A-MOI SE
70% RF
10HT, 1 |
| 211-220
DEG. F.: |
| 11-1 / RE
16VEL: 77
290 EA. T |
| £ 6.05 |

| | A 00.00 00.0 |
|-----------|--|
| | 1/2 MIDTH
595.
595.
718.
906.
66. |
| | D1STANCE
3283.
4102.
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8904.
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| | 8
595.
719.
1082.
1085. |
| | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 40. DBA | R1
1079.
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| | N1/
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| 573837 | 7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 18162 - 1 | 4776
4000
4000
4000
11705
1405 |

83

L 1011-1 / BAZIL-ZZR A-NCS SE LEVEL SEB LEVEL, FY DEG, F., TCK RELATIVE MUMINITY 152,CCD 1P, TAKEUFF WEIGHT, 10 DFC. FLAPS, TAKEUFF THRUST

L.CCO IP. TAKEUST WEIGHT, 10 DIG. FLAPS, TAKEUFF A. A.A.ISE LIVELS

| AREA | 0 | 0.02 | *0°0 | 90.0 |
|--------------------|-------|---------|-------|--------|
| 1/2 HIDTH | 262. | 262. | 318. | •
• |
| DISTANCE | 3283. | 4102. | 5078. | 7432. |
| α | 262. | 262. | 320. | 417. |
| R2 | 262. | 262. | 262. | 263. |
| ť | 413. | 4:3. | 413. | 414. |
| NI/
SCRT(THETA) | 97.76 | 25.25 | 77.75 | 92.83 |
| > | 130.4 | 151.0 | 162.0 | \$65.4 |
| ı | ċ | • | 35. | . 465 |
| * | 1203. | 4 1/12. | 4C78, | 4504. |

1-1311-1 / AB211-228 4-801 SE LEVEL 474 frvel, 77 deg. f., Tur Helative Humidity 1571.000 (f., Tavense Witcht, 10 deg. Flads, Takeoff Thrust 110. DBA 213831 32109 - T

| | | | ` | | | | | | |
|-------|------|--------|-------------|------|------|------|-------|-----------|------|
| × | ; | > | SCRICINETA) | | R2 | œ | | 1/2 WIDTH | AREA |
| | ò | 134.4 | 35.75 | 144. | 104. | 104. | | 104. | 0.0 |
| 4102. | 0. | 151.0 | 92.42 | 144. | 104. | 104. | | 104. | 0.01 |
| 5078. | .54 | 164.0 | 55.76 | 144. | 104. | 128. | | 124. | 0.01 |
| ***** | 592. | \$65.4 | 52.83 | 145. | 104. | 145. | 5739. | 0. | 0.02 |

07-04-74

RAFIATION ANCLE ITHETA! 9C. STAPIR : 1240.

INTERNATE OF THE CONTROL OF THE CONT

DEL V2 = 10.0 TAMB = .77.0 0. FLAP = 22. 0.0 CRFAC = 0.0 TYPED = 1848 FAG 1228 OFF VMI = 0.0 W = 430000. HP = SLUPE = 0.0 IFAC = 1.0 CBHT = of + 1.0 469 + 0.0

| | | £1 40 x >>. | 0EG 18#0 | #P# 77.0 DEG | . F #1/0= | . 0.0 K | V SLOPERO | 0.04 | ACC 1 = | 0.0 | KT/SEC | | | | | | |
|---|----|----------------------|--------------------|-------------------------------|---------------------------------------|------------------------|----------------|----------|-----------------------|--------|--------------------|---------|------------|-------|---------------------------|--------|-------------|
| Value Valu | | At Incom | | GECALTPIC
ALTITUDE
(F1) | TGTAL
DISTANCE
(FT) | TUTAL
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(18) | O X | MACH | AL PHA | P 17 CH
(DEG) | GRAD | IL. | EPA | N1/
SQRT(THET
(PCT) | 2
8 | FLAP |
| Colorest | | 19 m. 1 | • | • | 150 | 1.5 | 3 (5 | 2 | DEG C. | A B | 211-22 | 91.6 | U.F. | | ; | | ; |
| | | 11. mm / H | | •
• | 4F50. | 4.0 | 2418 | 48 | 0,77 | * | * | *** | ~ : | ٠ | 92.43 | * * | 22. |
| | | #: I - I : IL | ٥. | | 5774. | 43.7 | 2010 | ζ.
Β. | .235 | • | * | • | ~ | ٠ | 92.41 | * | 22. |
| Value Valu | | 1 14- 2561 | ., | Z. | 1061. | 48.4 | 1698 | 65 | 952. | | * | * * * | Ç | ٠ | 92.44 | * | 22. |
| CHINTIN SCR. 1197, 1197, 1197, 1190, 1193 16.3 16.4 100. 73.6 10.3 16.4 100. 73.6 12.24 92.46 1816. 22 10.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16 | | 14.5. | 795. | 105. | 1 % 75. | 6.1.2 | 1376 | Ş | .252 | | | *** | S | ٠ | 92.63 | **** | 22. |
| | | CONTRACT | * #1 #2 #5
* ** | 413. | 11437. | 11.2 | 1160 | 20 | • £53· | • | • | • 106 | 4 | ٠ | 92.8h | 1816. | 22. |
| Colorest 1176, 1276, 1277, 1275, 1275 1633 166, 1103 1277 1553 93.55 1781, 227, | | Chat CK XX | . H & B | 0 | 10417. | 81.2 | 0340 | 2 | 457. | | | • 104 | m | | 49.64 | 1799. | 22. |
| Colonia Partico Part | | f, 1 or 5 & 3 | 1 104. | | 16369. | 2110 | 3732 | 7 | .256 | • | | • 103 | 2 | • | 93,32 | 1781. | 22. |
| | | C. 1 49 X 1 X | * 12 12 12 1 | 1543. | €22114 | 101.2 | 0521 | 7 | 1,25 | • | 1 • 91 | 101. | - | | 93.55 | 1763. | 22. |
| Colored Colo | | Cornerati | 1767. | 1 8 5 6 . | 33111 | 111.2 | 0309 | 13 | .259 | • | 16.0 | 130 | 0 | | 93.78 | 1745. | .77 |
| 17.11 17.12 17.14 17.1 | | S 4 4 4 5 3 3 | 2010. | 4143. | 24039. | 121.2 | 0047 | 3 | .260 | | 0.91 | 960. | 9 | • | 94.00 | 1727. | 22. |
| Colorest | | MARKAC. | 1356. | 2634 | 10979 | 131.2 | 0495 | 7,4 | .201 | | 15.9 | 160. | 68.6 | • | 94.21 | 1708. | .27 |
| Colorate | | T. S. J. S. L. S. T. | . m L & 2 | 2731. | 33929, | 141.2 | 96.66 | 5 | .263 | | 15.8 | • 095 | 67.6 | | 94.42 | 1689. | 22. |
| C. 1111 110. 1101. 1102. 1102. 20040 1774 - 265 10.3 15.5 0.092 65.6 1.544 94.84 1651. 22 0.011 1101. 1102. 1102. 20040 1774 - 265 10.3 15.5 0.091 64.6 1.546 95.05 11013. 22 0.011 1101. 1102. 1102. 20040 1774 - 266 10.3 15.5 0.091 64.6 1.546 95.05 11013. 22 0.011 11013. 22 0.012 11013. 22 0.013 11013. | | Clist Et Et E | 2917. | 30.71. | 10692. | 151.2 | 5575 | 7.5 | .264 | | Š | *60* | 9.99 | • | 94.63 | 1670. | 22. |
| CHILLY 1976, 1976, 1975, 2004; 1774, 207 10.3 15.5 .001 64.6 15.46 99.07 1615, 22 CHILLY 1976, 1 | ** | f 3 A.R. | 11.13. | \$ 307. | 10000 | 161.2 | 9248 | 2 | .765 | | w | .092 | 65.6 | | 94.84 | 651 | 22. |
| CHINITY 1917, 1865, 47656, 1812 2 HB42, 178 11 2.08 10.3 15.5 .000 63.7 1.548 95.27 1615, 22 CHINITY 1001, 4146, 48469, 1911.2 28462, 1710, 2879, 2007 10.3 15.4 .084 60.9 1.555 95.48 1596, 22 CHINITY 440, 4410, 4410, 4410, 2112 2 B442, 170 10.3 15.2 .086 60.9 1.555 95.48 1596, 22 CHINITY 440, 4410, 4410, 4410, 2112 2 B442, 170 10.3 15.1 .084 60.9 1.555 95.89 1560, 22 CHINITY 440, 4410, 4410, 2112 2 B442, 170 10.3 15.1 .084 50.9 1.555 95.89 1560, 22 CHINITY 440, 4410, 4410, 2112 2 B442, 1110 11. 15.1 .084 50.0 1.556 96.30 1524, 22 CHINITY 4410, 44 | , | 10. 13 H E H | 1656. | 1,63 | 4,7#56. | 171.2 | 29043 | 7.7 | .267 | • | S | .091 | 9.49 | ٠ | 95.05 | 633 | 22. |
| CHITTI 4001. 4414. 4845. 1912. 28645. 174.9 .259 10.3 15.4 .088 62.7 1555 95.48 1596. 22 CHITTI 4001. 4414. 4845. 1912. 28645. 174.9 .259 10.3 15.3 .086 60.9 1.559 95.48 1596. 22 CHITTI 477. 2712. 28652. 181.0 .273 10.3 15.1 .083 59.0 1.559 95.89 1560. 22 CHITTI 477. 2712. 28652. 181.0 .273 10.3 15.1 .083 59.0 1.559 96.50 1596. 22 CHITTI 477. 2712. 27677. 182.4 .276 10.3 15.1 .083 59.0 1.559 96.50 1596. 22 CHITTI 477. 2712. 27677. 182.4 .276 10.3 15.1 .083 59.0 1.559 96.50 1596. 22 CHITTI 477. 2712. 27677. 182.4 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2714. 2715. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .276 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .277 10.3 15.0 .082 58.1 1.550 96.50 1596. 22 CHITTI 476. 2716. 183.5 .277 10.3 15.0 .082 58.1 1.550 96.40 1596. 22 CHITTI 476. 2716. 183.5 .277 10.3 15.0 .082 58.1 1.573 97.96 1395. 22 CHITTI 476. 277. 185.0 .277 10.3 15.0 .082 59.3 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | ^ | dit to ery | 3736. | 3#65. | +5r5h. | 1+1.2 | 2 HB42. | 7.8 | .268 | ٠ | S | 0000 | 63.7 | • | 95.27 | 615 | 22. |
| 4,67. 4419. 5163. 201.2 284-6. 179.6. 271. 10.3 15.3 087 61.8 15.52 95.68 15.58 95.68 15.60. 22. 4,827. 4649. 4647. 271. 10.3 15.1 086 60.9 15.58 96.00 156.0 22. 4,827. 4647. 271. 271. 10.3 15.1 082 58.1 15.58 96.30 156.2 22. 5,47. 410. 277. 10.3 16.9 080 57.2 15.58 96.30 156.2 22. 5,47. 410. 410. 16.9 080 57.2 16.5 96.30 156.2 22. 5,47. 410. 27.7 10.3 16.9 080 57.2 16.0 157.2 26.3 158.2 26.4 157.2 26.4 16.0 157.2 26.4 177.2 16.2 16.0 16.2 16.2 16.2 16.2 16.2 <td>`</td> <td>Garan Walk</td> <td>+00 1</td> <td>4146.</td> <td>4 RG 6.9.</td> <td>151.2</td> <td>20643.</td> <td>÷</td> <td>.269</td> <td></td> <td>15.4</td> <td>.088</td> <td>62.7</td> <td></td> <td>95.48</td> <td>596</td> <td>22.</td> | ` | Garan Walk | +00 1 | 4146. | 4 RG 6.9. | 151.2 | 20643. | ÷ | .269 | | 15.4 | .088 | 62.7 | | 95.48 | 596 | 22. |
| 4527. 4449. 5451.0. 211.2 28752. 180.3 -777 10.3 15.1 086. 60.9 1.556. 55.89 156.0 22.2 577. 477. 477. 10.3 15.1 084. 59.9 1.556. 56.0 1542. 22. 577. 477. 477. 10.3 15.0 082. 58.1 15.56 96.30 1542. 22. 577. 476. 477. 477. 10.3 14.9 082. 58.1 15.50 96.30 1542. 22. 577. 476. 476. 477. 177. | | Correct | 4.767. | 4419. | 51693. | 201.2 | 78446. | ć. | .271 | • | Š | .087 | 61.8 | ٠ | 95.68 | 5 78 | 22. |
| \$\(\frac{4}{7}\), \$\(\frac{4}{ | | Z E. C. | 4527. | · C. + + 2 | 54030. | 711.7 | A 2 52 | 80 | .172 | • | S | • 086 | 6.09 | ٠ | 55.89 | 260 | 22. |
| \$\(\chick{6}{\psi_{\nnt_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\psi_{\nntk_{\psi_{\nntk_{\psi_{\psi_ | | Cores y CX | 4785. | 45.53 | \$1974. | 221.2 | 11060 | Ð | .273 | | • | • 084 | 66.65 | • | 60.95 | 545 | 22. |
| \$\(\chi_{1} \), \$\(\c | | 30100100 | \$0405 | 5221. | 61643. | 231.7 | 1872 | 181.7 | .275 | • | S | •083 | 29.0 | | 96.30 | 524 | 22. |
| \$ 16.0. \$ 116.0. \$ 116.0. \$ 116.0. \$ 16.0. | | 2111110 | 5,367. | 4467. | 64117. | 2+1+2 | 76 97 | 182.4 | .216 | | S | • 082 | 58.1 | ٠ | 96.50 | 1506. | 22. |
| \$\(\text{start}, \) \(\t | | | .1944 | . 140. | 67141. | 251.2 | 7505 | 103.1 | .217 | • | 4 | 080• | 51.2 | ٠ | 96.71 | 489 | 7 5. |
| 6073, 6746, 73400, 271,2 27147, 184.5 .280 10.3 14.8 .078 55.5 1.566 97.11 1454, 22 6777, 6.747, 7570, 251,2 2.0047, 185.; .281 10.3 14.7 .077 54.6 1.567 97.32 14137, 22 6477, 6.74, 76.50, 251,2 2.0047, 185.; .281 10.3 14.7 .077 54.6 1.567 97.33 1419, 22 6471, 7527, 6.74, 311,2 2.6453, 187.2 .284 10.3 14.6 .074 53.0 1.571 97.55 1419, 22 6471, 727, 6.74, 311,2 2.6453, 187.2 .285 10.3 14.4 .071 55.1 1.573 97.96 189.8 22 420. | | 1,21 = C 2 3 E | 5 167. | 2.166. | 10293. | 261.2 | 27325. | 183.0 | .279 | • | 4 | • 0 7 9 | 56.4 | • | 16.96 | 412 | 22. |
| 6777. 6447. 76570. 261.2 26947. 1857281 13.3 14.7 .077 54.6 1.567 97.32 1437. 22 6443. 14550. 261.2 26792. 18572. 19.3 14.6 .075 53.8 1.569 97.53 1419. 22 6443. 14550. 261.2 26792. 187.8 14.6 .075 53.8 1.559 97.53 1419. 22 6443. 187.2 26453. 147.2 284 10.3 14.6 .075 53.8 1.571 97.75 1409. 22 6471. 7227. 65940. 311.2 26453. 147.2 2845 10.3 14.6 .072 51.3 1.579 97.96 1385. 22 72.7 720. 47791. 321.7 26270. 147.8 .286 10.3 14.4 .072 51.3 1.579 98.18 1369. 22 72.7 7700. 4727. 7700. 4727. 7700. 4727. 7700. 7 | | CHISTST | 6013. | E740. | 7 3400. | 271.2 | 7147 | 184.5 | 087* | • | 4 | .078 | 55.5 | ٠ | 97.11 | 424 | 22. |
| 6447. 6744. 74650. 251.2 26772. 185.8 1282 10.3 14.6 .075 53.8 1.569 97.53 1419. 22 6741. 8747. 727. 720. 1.571 97.75 1402. 22 6471. 7277. 87797. 301.2 26421. 167.5 10.3 14.6 .074 53.0 1.571 97.75 1402. 22 6471. 7207. 7207. 7207. 14.2 26421. 147.8 2265 10.3 14.4 .072 51.3 1.574 98.18 1369. 22 7.267. 7700. 57267. 331.2 26420. 187.8 2665 10.3 14.4 .071 50.5 1.576 98.40 1353. 22 7.27. 7700. 57267. 331.2 26470. 187.8 2.267 10.3 14.4 .071 50.5 1.576 98.40 1353. 22 7.657. 7700. 57267. 331.2 26470. 189.8 2.2 14.4 .071 50.5 1.576 98.63 1337. 22 7.657. 7102. 71 | | 4.11.4.8.1.2 | 6770. | 6 ~ 5 7 . | 10550. | 20105 | 6947 | 135, | .281 | • | 14.7 | .077 | 54.6 | • | 97.32 | 437 | 22. |
| 6741, 6787, 87793, 301.2 76621, 186.5 .284 10.3 14.6 .074 53.0 1.573 97.75 1402, 22 6493, 17.2 .0841, 17.2 .28451, 187.2 .28451, | | CHARKE | 6407. | 6743. | 14650. | 2-1-2 | 2019 | 185.8 | .292 | • | 14.6 | • 075 | 53.8 | ٠ | 97.53 | 419 | 22. |
| 4471. 7227. 65745. 131.2 26453. 137.2 .285 10.3 14.5 .073 52.1 1.573 97.96 1385. 22 72.2 7425. 331.2 26270. 187.8 .285 10.3 14.4 .072 51.3 1.574 98.18 1369. 22 7427. 7700. 5724. 710.3 14.4 .071 50.5 1.574 98.63 1353. 22 7427. 7700. 57247. 331.7 26131. 168.5 .747 10.3 14.4 .071 50.5 1.576 98.63 1337. 22 7427. 7700. 57247. 7700. 57247. 7700. 57247. 7700. 57247. 7700. 57247. 7700. 7700. 57247. 7700. 7700. 57247. 7700. 7700. 57247. 7700. | | Cires B. 2. 2 | 6741. | 6.87. | A2791. | 301.2 | 6021 | 186.5 | .2134 | | 14.6 | *0.° | 53.0 | ٠ | 97.75 | 402 | 22. |
| 7202. 7425. 84111. 321.7 26270. 187.8 .285 10.3 14.4 .072 51.3 1.574 98.18 1.359. 22 7427. 7703. 45227. 331.7 26131. 188.5 .277 10.3 14.4 .071 50.5 1.576 98.0 1353. 22 7427. 7703. 45227. 331.7 26131. 188.5 .277 10.3 14.4 .071 50.5 1.576 98.0 1353. 22 7471. 7703. 45227. 31.7 25976. 199.2 .289 10.3 14.3 .069 48.9 1.580 98.63 1322. 22 7471. 7703. 4547. 361.2 255424. 199.8 .249 10.3 14.2 .068 48.2 1.581 99.07 1307. 22 7471. 7703. 7704. 101871. 361.2 25576. 190.5 .241 10.3 14.1 .067 47.4 1.583 99.29 1292. 22 7471. 7703. 771. 101832. 371.2 25531. 191.1 .272 10.3 14.1 .066 46.6 1.585 99.50 1277. 22 74.7. 77.7. 77.7. 77.7. 77.7. 101832. 752.2 10.3 14.0 .065 45.9 1.587 99.9 1292. 22 77.7. 77.7. 77.7. 11656. 771.2 25531. 191.7 .293 10.3 14.0 .065 45.9 1.587 99.9 1292. 22 77.7. 77.7. 77.7. 77.7. 77.7. 101837. 193.6 .294 10.3 13.9 .065 45.9 1.594 100.55 1209. 22 77.7. 77.7. 77.7. 77.7. 77.7. 101837. 193.6 .299 10.3 13.9 .065 45.9 1.594 100.55 1209. 22 77.7. 77.7. 77.7. 77.7. 77.7. 77.7. 1.593 100.55 1209. 22 | | City at Mark | 6671. | 1227 | 65946. | 311.2 | 6423 | 147.2 | 5112 | • | 5.41 | •073 | 1.75 | ٠ | 96-16 | 383 | . 77 |
| 76.70. 77.70. 77.70. 331.7 76131. 106.2 77.7 10.3 14.4 0.071 20.2 1.578 98.63 1332. 22 76.52. 76.7 1.678 98.63 13.2 22 76.5 1.67. 36.7 1.678 98.63 13.2 22 76.5 1.67. 36.5 1.678 98.63 13.2 22 76.5 1.67. 36.5 1.678 98.63 13.2 22 76.5 1.678 98.63 13.2 22 76.5 1.678 98.63 13.2 22 76.5 1.678 1.678 98.63 13.2 22 76.5 1.678 1.678 1.678 98.63 13.2 22 76.5 1.678 1.678 1.678 98.63 13.2 22 76.5 1.678 1.6 | | ****** | 1207. | 7465 | 34111 | 121.7 | Q | 8. / 8. | 2
2
3
4
4 | • | * · · | 710. | 5.1° | ٠ | 81.8 | 300 | |
| 7652. 7732. 37477. 3417. 25976. 1574. 1613. 14.3 .070 47.7 1.570 98.63 1537. 22. 22. 22. 22. 22. 22. 22. 22. 22. 2 | | E 1 6 1 1 1 7 3 | 1669 | | | 7 - 1 - 5 | 7 | 0.001 | - C - F | • | 7 . | 200 | | • | 000 | 1000 | * (|
| ## ## ## ## ## ## ## ## ## ## ## ## ## | | A | 1652 | 1932. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7 - 1 - 5 | 0110 | 7.61 | , c | | 7 * * * | 200 | | ٠ | 40.00 | 1331 | • • • • • |
| ### ### ### ### ### ### ### ### ### ## | | X 5 6 11 11 2 | | * 1914 | 2136 | 7 1 16 | 700 | 2 | 0424 | ٠ | 7 . | 700 | | | 0.00 | 7761 | • • • • |
| # 107. # 111. 101. 111. 25531. 191. 1.792 10.3 14. 1.067 47.4 1.583 99.29 1272. 22 1272. 22 1273. 12 | | C1: ** * * * | A091. | h) f ti , | TOTALI. | 30.1.2 | 5676 | 190.5 | 1620 | ٠ | 7.41 | 840 | 7.84 | ٠ | 20.66 | 1307 | • 7 7 |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | | C4. 02.3 6.3. | 6 30 7. | A | 105101. | 371.2 | 5531 | 161 | .7.12 | • | 14.1 | .067 | 4.7.4 | ٠ | 99.29 | 1292. | . 22 |
| F712, 4644, 111573, 341.2 2525, 192.4 .295 10.3 14.0 .065 45.9 1.587 99.41 1263. 22 4947, 9771, 114026, 401.2 25118, 193.0 .296 10.3 14.0 .064 45.1 1.589 99.93 1249. 22 4147, 6464, 11409, 411.2 24987, 193.6 .297 10.3 13.9 .063 44.4 1.591 100.14 1226. 22 9341, 4654, 1231.2 24858, 194.3 .298 10.3 13.9 .062 43.7 1.593 100.55 1209. 22 9553, 6934, 124646, 431.2 24733, 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. 22 | | C-114 # 4 # | 0000 | . 26 | 10,4337. | 161.2 | 5 140 | 191.7 | £ 6.2. | | 14.1 | • 066 | 46.6 | ٠ | 99.50 | 1277. | 22. |
| #947. 9771. 114026. 401.7 25118. 193.0 .296 10.3 14.0 .064 45.1 1.589 99.93 1249. 22 9147. 6464. 1216069. 411.2 24987. 193.6 .297 10.3 13.9 .063 44.4 1.591 100.14 1236. 22 9147. 6464. 1216069. 421.2 24987. 194.3 .298 10.3 13.9 .062 43.7 1.593 100.34 1222. 22 9351. 6931. 124646. 431.2 24733. 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. 22 | | Ca, e C 3 * X | F717. | ***** | 111573. | 241.2 | 2425 | 192.4 | .295 | | 14.0 | • 065 | 45.9 | • | 99.11 | 1263. | .22 |
| φιάλ, σάρω, 1160%, 411.2 24987, 193.6 .297 10.3 13.9 .063 44.4 1.591 100.14 1236. 22
φ34ι, φεζα, 1213ε2, 421.2 24858, 194.3 .298 10.3 13.9 .062 43.7 1.593 100.34 1222. 22
φ453, Φ93π, 12464α, 431.2 24733, 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. 22
π π π γεξες σφ1 κ σ.α | | F114 X 4 X X | 454.7 | 9771. | | V-10+ | 5118 | 193.0 | 767. | | 14.0 | • 064 | 45.1 | 1.589 | 99.43 | 1249. | 22. |
| φ34ι, %εξα, 1213ε2, 421.2 24858. 194.3 .298 10.3 13.9 .062 43.7 1.593 100.34 1222. 22
9%53. εγολπ. 12×ε4α. 431.2 24733. 194.9 .299 10.3 13.8 .061 42.9 1.594 100.55 1209. 22
.0 π1/5εε εθελε ιχέρ : 0.0 | | 216 21 121 | 4147. | • 53 % 50 | | 411.2 | • | 193.6 | 167. | • | 13.9 | • 063 | 5.55 | 165.1 | 100.14 | 1236. | 22. |
| x 9551. | | E | 4341. | | 121362. | 421.2 | 4
5
5 | 194.3 | *798 | • | 13.9 | • 062 | 43.7 | 1.593 | 100.34 | 1222. | .22 |
| . O.G KT/SEC COFAC USEP = D | | Contract Co | 9.653. | | 12.46.4 | 431.2 | 473 | • | 667. | ٠ | 13.8 | •061 | 45.9 | 1.594 | 100.55 | 1209. | .22 |
| | | • | K 1/58 | B+ AC | و
د | | | | | | | | | • | | | |

PAGE

07-04-74

WATIMUM TAKENSE WEIGHT (430.COULB.). 22 DEG. FLAPS, TAKEUFF THRUST

L 1011-1 / 48715-228 4-MOISE LEVEL Statfwer, 77 866, F., 70% Relative Hunidity Parimum Takegef weight (430,00018.), 22 Beg. Flaps, Takegef Thrust

| | 151 | 75.01 | 15.01 | 17.60 | 81.02 | 82.00 | 84.35 | 63.19 | 82.37 | 81.98 | 80.78 | 79.88 | 19.62 | 78.52 | 17.65 | 77.49 | 76.46 | 15.59 | 15.47 | 74.55 | 73.76 | 13.69 | 72.87 | 72.16 | 72.11 | 71.39 | 10.76 | 10.71 | 70.06 | 15.69 | 69.45 | 68.87 | 68.39 |
|------------|--------------|---------|--------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|-----------|---------|--------|---------|---------|--------|--------|--------|---------|----------|---------|---------|--------|--------|---------|--------|--------|--------|-------------|--------|
| | XFP | 4856. | 5774. | 7061. | 10675. | 13537. | 16412. | 19300. | 21280. | 22200. | 25113. | 27360. | 28039. | 30578. | 33440. | 33929. | 36492. | 39520. | 37466. | 42856. | 45600. | 45H56. | 48 AC 9. | 51680. | 51893. | 54930. | 57760. | 57979. | 61040. | 63840. | 64112. | 67197. | 69920. |
| | Œ | 1520. | 1520. | 1520. | 1550. | 1641. | 1782. | 1960. | 2098. | 2166. | 2390. | 2571. | 262H. | 7874. | 3064 | 3120. | 35H1. | 3609. | 3639. | 3898. | 4135. | 4157. | 4410. | 4655. | 4673. | .0867 | 5166. | 5185. | 5438. | 5667. | 5689. | 5930. | 6156. |
| | וכו | ***** | **** | 123.37 | 102.95 | 95.96 | 91.71 | BH.55 | 86.84 | 84.12 | 83.,/ | A2.54 | 82.13 | 80.55 | 19.38 | 79.16 | 17.92 | 76.91 | 76.17 | 15.67 | 74.74 | 74.46 | 73.73 | 72.93 | 72.87 | 12.07 | 71.37 | 71.32 | 70.42 | 10.01 | 96.69 | 69.33 | 6A,81 |
| PATH | A) XP | 4 856 s | 15774. | 7061. | 10675. | 13537. | 16412. | 19300. | 21240. | 22200. | 25113, | 27360. | 28019. | 30478. | 13640. | 13979. | 36P92. | 19520. | 14868. | 42856. | .5600. | 45856. | 4.8869. | 51680. | 51893. | 54930. | 57760. | \$1919. | 61040 | 63840. | 64112. | 67197. | 69920. |
| F11GHT | SCP TI THE T | 47.43 | 47.41 | 44.26 | 92.63 | 92.86 | 63.09 | 53.32 | 0 | 63.55 | 95.76 | 67.05 | 00.36 | 54.21 | 64 . 39 | 54.42 | 4 3 | 24.112 | 94.84 | 45.05 | 65.25 | 95.27 | 55.4E | 95.t7 | 66.68 | 55.40 | 96.08 | 46.09 | 96.30 | 64.05 | 9.6.50 | 46,74 | 46.85 |
| ALCONG THE | | | 158.3 | 165.2 | 169.2 | 173.0 | 176.7 | 171.5 | 137.0 | 172.2 | 173.0 | 171.5 | 173.7 | 174.5 | 175.1 | 174.2 | 175.9 | 1 80.0 | 176.7 | 177.4 | 1.0.1 | 178.1 | 678.9 | 179.5 | 270.6 | 1001 | 166.3 | 181.0 | 161.7 | 1.87.3 | 1.67.4 | | 1.87 |
| STANAT | = | • | 0 | 35. | 305. | 619. | 930. | 1238. | 1546. | 1503. | 1844. | 7074. | 2143. | 2439. | 7.03 | 2/31. | 1207 | 3273. | 1307. | 1589. | 1645. | 1800. | 4146. | 4.000. | 4419. | .004 | 403B. | 6-157. | 5.23. | 5459. | 5467. | 5740. | 5965 |
| 35104 | ~ | 40.00 | \$174. | fcc1. | 13675. | 13517. | 1+ 4:2. | 19300. | 21 693. | .00777 | 75113. | 21340. | 28.78. | 30 G 7 P. | 13年の | 31076. | 14.00.2 | 345 20. | **** | 47856. | +5000 | * サンキンキ | 44.00 D. | 41 And. | 51.643. | 14030. | 57760. | 67639. | 41040. | 01880 | 44112 | 2 2 2 4 4 5 | 01643 |

L-1011-1 / RB211-22B A-NOISE LEVEL SFA LEVFL, 77 DEG. F., 70% RELATIVE HUMIDITY PAXIMUM TAKEOFF WEIGHT (430,000LB.), 22 DEG. FLAPS, TAKEOFF THRUST

4 - NUISE LEVELS

| 7 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------------|--------|
| 17.2 41 | 2090 | 2090 | 2090 | 3117 | 3439 | 3661 | 3845 | 3963 | 4019 | 4198 | 4346 | 4393 | 4600 | 4736 | 4719 | 4541 | 4363 | 4338 | 4109 | 3872 | 3849 | 3551 | 3233 | 3207 | 2799 | 2336 | 2295 | 1610 | 251 | 0 |
| DICTANCE | 4856 | 5774. | 7061. | 10675 | 13537. | 16412. | 19300. | 21280. | 22200. | 25113. | 27360. | 28039. | 30978. | 33440. | 33929. | 36342. | 39520. | 39868. | 42856. | 45600. | 45356. | 48869. | 51480. | 51893. | 54930. | 57760. | 57979. | 61040. | 63840. | 63908. |
| α | 2090 | 2090 | 2090. | 3132. | 3494. | 3777. | 4039. | 4219. | 4304. | 4585. | 4815. | 4884. | 5206. | 5443. | 5452. | 5454. | 5455. | 5455. | 5456. | 5457. | 5457. | 5459. | 5460. | 5460. | 5461. | 5462. | 5462. | 5464. | 5445. | 5465. |
| 82 | 2090 | 2090. | 2090 | 2091. | 2392. | 2093. | 2094. | 2095. | 2095. | 2096. | 2097. | 2097. | 2398. | 2099. | 2099. | 2133. | 2101. | 2101. | 2102. | 2103. | 2103. | 2104. | 2104. | 2105. | 2105. | 2106. | 2106. | 2107. | 2108. | 2108. |
| 2 | 5440. | 5440. | 5440. | 5441. | 5443. | 5444. | 5446. | 5447. | 5447. | 5448. | 5449 | 5450. | 5451. | 5452. | 5452. | 5454. | 5454. | 5455. | 5456. | 5457. | 5457. | 5459. | 5460. | 5460. | 5461. | 5462- | 5462. | 5464. | 5465. | 5465. |
| NI /
SCR IE THE TA! | 92.43 | 92.41 | 95.44 | 92.63 | 95.86 | 63.09 | 53.32 | 63.48 | 93.55 | 63.78 | 93,95 | 00.45 | 94.21 | 94.39 | 24.45 | 54.63 | 94.82 | 94.84 | 95.05 | 32.48 | 55.27 | 95.48 | 25.67 | 95.68 | 65.89 | 96.38 | 60.36 | 65.30 | 65.95 | 26.50 |
| > | 148.3 | 158.3 | 165.2 | 165.2 | 170.0 | 170.7 | 171.5 | 172.0 | 172.2 | 173.0 | 173.5 | 173.7 | 174.5 | 175.1 | 175.2 | 175.9 | 176.6 | 1.16.7 | 177.4 | 178.1 | 178.1 | 178.9 | 179.5 | 179.6 | 180.3 | 6.081 | 181.0 | 181.7 | 182.3 | 182.4 |
| ı | 0 | 0 | 35. | 305. | .619 | 930. | 1238. | 1446. | 1543. | 1844. | 2074. | 2143. | 2439. | 2683. | 2731. | *12Cr | 3273. | 3197. | 3569. | 3475. | 3869. | 4146. | 4400. | .6155 | 4090. | 4.138. | 4951. | 5221. | 5459. | 5. 82. |
| × | 4856. | 5174. | 7061. | 10675. | 13537. | 16412. | 19300 | 21280° | 22200. | 25113. | 27360. | 28039. | 40,578. | 33440. | 13925. | *5885* | 395.20. | 39868. | 47856. | 456CJ. | 45856. | *880° | \$16±0° | 51893. | 54936. | 41160. | .61514 | 61040. | t. 3.P.4.D. | 64112. |

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r.

PAGE 89

L-1011-1 / 48211-225 A-VOLSE LEVEL SEA LEVEL, 77 OEG, F., TOT RELATIVE HUMIDITY MAXIMUM TAKEGGE WGIGHT (430,000L8.), 22 DEG, FLAPS, TAKEGFF THRUST

+ - WOISE LFVELS

80. URA

AREA 0.0 0.0 0.19 0.19 0.59 1.37 1.61 2.1 2.25 2.64 2.97 3.23 DISTANCE 1/2 WIDTH 4854. 1136. 5774. 1138. 7061. 1380. 10675. 1718. 13537. 1886. 16412. 2035. 19300. 2204. 22200. 2021. 22200. 2021. 221380. 2031. 22780. 1753. 27860. 1478. 28039. 1376. 30778. 742. R 1139. 1138. 1381. 1745. 1985. 2237. 2542. 2543. 2547. 2547. 2547. 82 1139. 1139. 1139. 1140. 1141. 1142. 1144. 1145. 1145. 2531. 2531. 2531. 2531. 2533. 2533. 2543. 2542. 2543. 2547. 2547. \$68 T THE TAL 92.63 92.64 92.64 92.63 92.63 92.63 93.48 93.65 93.78 93.78 93.78 93.78 93.78 93.78 148.3 168.3 165.2 165.2 170.2 170.2 171.5 171.5 173.0 173.0 0.00 35.305.00 305.00 410.00 105.00 105.00 105.00 20.0 4056. 5774. 10617. 10617. 10617. 10617. 1970. 27717. 27713.

(-1011-1 / RUZ11-225 A-NUISE LÍVEL SFA LEVEL, 77 NFG. F., 70% RFLATIVE HUMIOITY MAXIMIM TAKEUFF WÍJGHT (430,000) B.), 22 NFG. FLAPS, TAKENFF THRUST

90. NBA

| | A 000000000000000000000000000000000000 |
|-----------|--|
| | 1/2 HIDTH
595.
595.
718.
718.
863.
559. |
| | DISTANCE
4856.
5774.
7061.
10675.
13537.
16412. |
| | 8985.
7119.
9119.
1088.
1086. |
| | 88 88 88 88 88 88 88 88 88 88 88 88 88 |
| 90. NAA | R1
1079-
1079-
1079-
1081-
1083-
1086- |
| | M1/
92.43
92.41
92.44
92.64
92.65
92.40
93.32 |
| | 158.3
158.3
1655.2
170.0
170.0 |
| LEVELS | A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| A - MO15F | 1000 mm 1000 m |

| | | | SEA. | | 0, | 70 | | 0.i. | |
|--|------------------|------|-----------------|--------------|-------|-------|--------|---------|--|
| | | | | | _ | | | •0 | |
| 151 | | | DISTANCE 1/ | 4856. | 5774. | 7061. | 10675 | 11667. | |
| OFF THRU | | | œ | 262. | 262. | 320. | 413 | 414. | |
| APS, TAKE | | | R2 | 262. | 262. | 262. | 262. | 263. | |
| DEG. FL. | 100. DBA | | 8
1
8 | 413. | 412. | 413. | 413. | 414. | |
| WEIGHT (430,600LB.), 22 DEG. FLAPS, TAKEDFF THRUST | | > 1× | SCR TO THE TA) | 92,43 | 14.55 | 45.44 | 92.63 | 0 92.8t | |
| 10E +) 1H: | | | > | 149.3 | 158.3 | 165.2 | 169.2 | 170.0 | |
| 77 DEG. F
OFF WEIG | LFVFLS | | I | ċ | 0 | 35. | 305. | 619. | |
| SFA LEVEL, 77 DE
MAXIMUM TAREOFF | A - NOISE LEVELS | | × | 6856. | 5174. | 1061. | 10675. | 13537. | |
| , v. a | | | | | | | | | |

| PAGE 92 | |
|------------------------------|---|
| PA(| |
| 71-04-16 | |
| Ö | |
| | THRUS |
| | TAKEDFF |
| | FLAPS, |
| | HUMIDITY
22 DFG. |
| 1 / 88211-228 A-NOISE 11 VEL | TL. 77 DEC. F., 7CE RELATIVE HUMIDITY
TAREGRE WEIGHT (430.000EB.), 22 DFG. FLAPS, TAKEDFF THRUST |
| 1-238 | LAULUM
U.S. C. |
| 1 / 8821 | L. 17 D |

| | | AREA
0.0
0.01
0.02 |
|---|------------------|--|
| 07-04-74 | | 1/2 W fDTH
104.
104.
124.
0. |
| | | DISTANCE 4856.
5774.
7061. |
| EOFF THR | | R
104.
104.
128. |
| .APS. TAK | | R2
104.
104.
104. |
| 41011Y
2 DFG. FL | 110. DEA | 81
144.
144.
144. |
| SE LIVEL
RELATIVE HU | | SCR 1(THF TA)
92.43
92.41
92.41
92.44 |
| 3 A-NUI | | 156.3
156.3
169.2 |
| 88211-238
77-056-3 | LFVELS | , , , , , , , , , , , , , , , , , , , |
| L-1011-1 / RB211-228 A-NUJSE LLVEL
SFA LEVEL, 77 DEC. F., 7CT RELATIVE HUMIDITY
PAXIFUM TAREGEE WEIGHT (430,000018.), 22 DEG. FLAPS, TAKENEF THRUST | A - NUISE LEVELS | 8
6856.
5776.
7061. |

HAFTATTON ANGLE (THETA) 90.

FPL (1927 + 7) ICE + B ISE C 18UTH + B NSCLND + O PRIFT + D NSCLFT + D MAXIMIN TAME OF NFIGHT, 10 BEG. FLAPS, FAR 36 CUTBACK AT 3.5 N. MILES

VMI & 0.0 W # 430000. HP # 14xt frc = 72n 13ff PYPID .

DEL V2 * 10.0 0. FLAP = 10. TAMB = 77.0 SLOP! = 3.0 TFAC = 1.0 CBHI = 1422,6 CBFAC = 0.0 AS 1 1.0 ACC1 = 0.0

5-109

| Control Dec Control | | | | | | | | | | | | | | | | |
|--|---------------------|-------------------------------|-------------------------------|---------------------------|------------------------|----------------|-----------------|---------|-----------------|-------------------|-------|-------|-------|----------------------------------|-------|---------------|
| Page Carrell | <u>.</u> | | P. 77.C DEC | | | | 0.0=3 | ACC1 : | 0.0 | KT/SFC | | | | | | |
| 0. WFIGHT 410000. IFPR. 1.513 ISA 110.0 DEG C. R8.211—228 BLFED OFF 0. 0515. 49.11 12.016. 12.83 | Mf R.T | PRESSUAF
AL 117UDF
(171 | GEOMETRIC
ALTITUDE
(FI) | TOTAL
DISTANCE
(FT) | TOTAL
TIME
(SFC) | THRUST
(LB) | SPEEU
(KTAS) | MACH | AL PHA
(DEG) | P 17 CH
(DEG) | GRAD | L | | N1/
SQR T (THE T
(PC T) | 2 | FLAP
(DEG) |
| 0. 6715. 441 11.2076. 155.7 233 eeee eee 77.0 1.521 92.41 eeee eee 77.0 1.519 92.41 eeeee | | | | | | 5) 11 | 0.01 | טובים ע | æ | 211-22 | 9 | | | | | |
| 14. 15. 16. 16.5. 16.7. 1.246 | ů, | | | 35 | 43.1 | 3.076 | 156.7 | .233 | | 77 - 11 7 | *** | | 4 | | 4 | - |
| 13. | 1 C. F | ° | | 6575. | 47.0 | 31643. | 167.1 | 248 | | | *** | 77.0 | • | • | | <u>.</u> |
| 11. | 15.FT | 34. | | 1870. | S 4 11 S | 31313. | 174-1 | 259 | *** | | *** | 76.9 | • • | | | • |
| LOGY 1723 144913 75.0 1076.0 178.9 2.06 11.0 18.2 1114 74.5 1.523 92.95 2079. 1423 1479. 276.0 11.0 18.0 111 71.2 1.526 93.23 2079. 147. 273.6. 270.0 11.0 14.5 .050 71.7 1.576 93.23 2079. 1496. 157. 2726. 11.0 14.5 .050 71.7 18.0 92.5 2079. 1570. 157. 127. 11.0 14.4 .048 88.6 92.5 2079. 170. 177. 11.0 14.4 .048 88.6 92.5 2079. 92.5 | 5 | 11.7. | 14% | 11739. | 64.5 | \$1008. | 177.9 | -205 | **** | | *** | 75.8 | • • | | *** | 2 6 |
| 1039. 1199. 194. 10510. 195. 268 11.6 181. 113 73.2 1526 93.23 2037. 1472. 21472. | N I N | , 263
5 | 123. | 1 601 1 | 15.0 | \$0760. | 178.9 | .266 | • | | -114 | 74.5 | . 52 | • | 2079. | |
| 14.2. 14.7. 214.9. 40.3 312.9. 40.8 270 11.0 11.0 11.52 43.52 2037. 14.2. 14.7. 214.9. 40.3 312.9. 40.3 312.9. 40.3 312.9. 40.3 312.9. 40.3 312.9. 40.3 312.9. 40.3 40.9. | 新田田田 | 1050 | 1 C Gr. | 13135. | 85.0 | 30510. | 179.9 | .268 | • | 18.1 | . 113 | 73.2 | . 52 | 93.23 | 2059. | |
| 1496. 15*1, 27372. 94*3 21094. 141.0 -270 11.6 14*5 -050 71.7 1.371 82.48 925. 1496. 1571, 157.6 20093. 142.1 -272 11.6 14*3 -046 68.8 1.378 82.68 906. 2760. 2772. 157.6 20089. 184.3 -276 11.6 14*3 -046 67.4 1.378 83.03 864. 2760. 2772. 157.0 20089. 184.3 -276 11.6 14*3 -046 67.4 1.378 83.03 864. 2761. 2772. 2774. 180.2 20089. 185.4 -278 11.6 14*1 -042 64.5 1.381 83.21 843. 2761. 2772. 2772. 2774. 190.6 1977. -291 11.6 14*1 -042 64.5 1.381 83.21 843. 2762. 4075. 74464. 2774. 190.6 1977. -291 11.6 14*1 -042 63.1 1.385 83.54 921. 2762. 4075. 74464. 2774. 190.6 1977. -291 11.6 14*1 -042 63.1 1.387 83.76 778. 2762. 4071. 4071. 4071. -289 11.6 14*0 -039 64.27 84.27 778. 2763. 10701. 2774. 2774. 190.0 -287 11.6 13.7 -037 57.4 1.397 84.27 778. 2764. 5775. 19701. -279 11.6 13.7 -037 57.4 1.399 84.61 64.2 2766. 17731. 2772. 2774. 197.1 -298 11.6 13.7 -037 57.4 1.399 84.61 64.2 2766. 17731. 2774. 2774. 2774. 197.1 -100 11.6 13.3 -038 57.4 -100 85.47 689. 2766. 1777. 170.7 178.7 -299 11.6 13.3 -038 58.8 14.0 85.47 689. 2766. 1777. 2774. 2774. 197.1 190.0 11.6 13.3 -032 24.1 64.0 64.0 64.0 2766. 1777. 2774. 2774. 197.1 190.0 11.6 13.3 -032 24.6 14.0 85.64 531. 2766. 1777. 2761. 1787. 2761. 199.2 2774. 10.3 1788. 2764. 2774 | * | 1427. | 1472. | 21436. | 96.3 | 3 32 50. | 140.8 | .270 | • | 18.0 | .111 | 71.9 | . 52 | 93.52 | 2037 | 10. |
| 1896 1874 1874 1856 20003 182-1 1872 11.6 14.5 0.49 7C.2 1.375 82.68 905 1872 1872 1872 2024 2024 | A C E | 1496. | 1500. | 27376. | 99.3 | 21099. | 141.0 | .270 | 11.6 | | • 050 | 711.7 | .37 | 82.48 | 925 | 10 |
| 2796. 7477. JH714. 152.6 20697. 133.2 274 11.6 14.4 .046 68.8 1.376 86.8 .86.4 .86.4 .87.7 .276 11.6 14.3 .046 67.4 1378 88.03 864.2 June 14.3 .046 67.4 1378 86.0 June 14.3 .046 67.4 1378 86.2 11.6 14.1 .044 64.5 1381 83.21 864.1 864.1 86.4 14.1 .044 64.5 1381 86.2 14.3 .046 67.4 1378 864.1 .047 .281 11.6 14.1 .044 64.5 1381 864.2 14.3 .046 64.5 1381 864.2 14.3 .046 64.5 14.3 .046 .047 .047 .047 .047 .047 .047 .047 .047 .047 .047 .047 .047 .047 .047 .047 .044 .045 .047 .0 | #
| 1896. | 1543. | \$0.40 %· | 125.6 | 20903. | 192.1 | .272 | _ | | .049 | 70.2 | .37 | 82.68 | 906 | 10. |
| 26%6. 2742. 6727. <th< td=""><td>**</td><td>3 20 C</td><td>7177.</td><td>Ju714.</td><td>152.6</td><td>20697.</td><td>133.2</td><td>.274</td><td>~</td><td></td><td>• 04B</td><td>68.8</td><td>.37</td><td>82.86</td><td>885.</td><td>9</td></th<> | ** | 3 20 C | 7177. | Ju714. | 152.6 | 20697. | 133.2 | .274 | ~ | | • 04B | 68.8 | .37 | 82.86 | 885. | 9 |
| None. 3266. \$6112. 2036. 2036. 165.4 278 11.6 14.2 045 64.0 1.381 843.2 1450. 4035. 7524. 20074. 186.6 231 11.6 14.1 044 64.5 1.383 83.40 821. 1760. 4035. 7446. 264.1 17.7 243 16.1 1.387 83.40 821. 4035. 7466. 186.6 186.8 186.9 16.9 6.0.3 1.390 83.4 755. 4046. 415. 146.0 287 11.6 13.9 60.3 13.9 84.2 755. 4046. 13.0 14.0 287 11.6 13.9 60.3 13.9 84.2 755. 4046. 13.0 19.0 287 11.6 13.9 60.3 13.9 84.2 755. 4046. 13.0 11.6 13.9 60.3 13.9 84.2 75. < | XXX | * ₽₽₽₽ | \$ 155. | . 1274. | 180.2 | 20486. | 184.3 | .276 | 11.6 | | •040 | 67.4 | .37 | 63.03 | 864. | 0 |
| 145g. 1471. 65728. 237.6 20074. 186.6 1291. 11.6 14.1 .044. 64.5 1.383 83.40 821. 134g. 4435. 7464. 286.0 187.7 285.1 11.6 14.0 0.44 64.5 178. 4456. 4456. 1846. 187.7 285.1 11.6 13.9 60.3 13.9 83.5 778. 4646. 415. 1846. 1846. 18.6 18.9 66.9 18.9 733. 4646. 415. 1821. 182.3 191.1 289 11.6 13.9 68.9 778. 4646. 416. 186. 193.2 191.1 289 18.9 774. 733. 4896. 416. 186. 193.2 194.1 186. 18.7 18.9 84.6 66.5 11.8 18.9 71.1 18.9 84.6 66.9 71.1 71.0 11.6 13.6 13.6 13.8< | M
Fr | 1004 | 3206. | 50112. | 208.5 | 20201. | 8 | .278 | _ | • | .045 | 0.79 | 1.381 | 83.21 | 843. | 10. |
| 3/496. 4025. 74046. 267.4 19069. 187.7 .293 11.6 14.1 .042 63.1 1.387 83.58 799. 4476. 4485. 14663. 186.8 .285 11.6 14.0 .041 61.7 1.387 83.76 778. 4656. 1406. 374.6 19457. 190.0 287 11.6 13.9 .039 84.12 778. 4640. 4105. 194.1 289 11.6 13.9 57.4 1.392 84.12 733. 4640. 4107. 196.2 197.3 293 11.6 13.7 .035 56.0 13.9 84.27 68.29 771. 4640. 411.2 196.2 196.7 294 11.6 13.7 603 56.0 13.9 84.27 683 4640. 411.2 13.2 13.4 13.4 13.4 14.2 13.4 4640. 412. 412. 412. 412. | * | \$ 50 % P | 5671. | 65728. | 237.6 | 20074. | 186.6 | .291 | _ | | • 044 | 64.5 | 1.383 | 83.40 | 821. | 10 |
| \$\langle \text{4.65}, \tex | * * * | 3896. | 4035 | 74046. | 267.4 | 19069. | 1.97.7 | .293 | 9.11 | 14.1 | • 042 | 63.1 | 1.385 | 83.58 | 199. | 0 |
| \$\langle \text{Copple}{C | * * * | 4.73C. | 4653. | 44185. | 798.0 | 19663. | 198.8 | -285 | 11.6 | 14.0 | .041 | 61.7 | 1.387 | 83.76 | 778. | 10. |
| \$\(\frac{6}{16}\), \(\frac{5}{16}\), \(\frac{1}{16}\), \(\frac{5}{16}\), \(\frac{5}{16}\), \(\frac{5}{16}\), \(\frac{5}{16}\), \(\frac{1}{16}\), \(\frac{5}{16}\), \(\frac{1}{16}\), \(\frac{1}{ | * 4. 1 | *696. | 4.165. | .14466. | 324.6 | 4457 | 0.061 | .287 | 11.6 | 13.9 | .039 | 60.3 | 1.390 | 83.94 | 755. | 0 |
| \$440. \$665. [1.757. 355.6 19050. 192.3 .291 11.6 13.7 .037 57.4 1.394 84.29 711. [\$480. \$110. 127012. 437.1 18848. 193.5 .293 11.6 13.7 .035 56.0 1.396 84.47 688. [\$4804. \$6110. 127012. 437.1 18848. 193.5 .293 11.6 13.7 .035 56.0 1.396 84.64 665. [\$470. \$670. 1547.7 567.2 186438. 195.9 .296 11.6 13.4 .031 53.1 1.399 84.81 642. [\$470. \$755. 1647.7 541.2 18074. 195.9 .296 11.6 13.3 .030 50.3 1.403 85.14 597. 619. [\$470. \$771. \$771. \$771. \$811.2 18074. 194.3 .302 11.6 13.3 .028 48.8 1.406 85.31 575. [\$470. \$771. \$ | mi
in
in | *00% | 5.65 | 102017. | 362.1 | 9253 | 191.1 | .289 | 11.6 | 13.8 | •036 | 58.8 | 1.392 | 84.12 | 733. | 10 |
| \$\frac{6}{120}\$, \$\frac{1}{12}\$, \$\frac{1}{12} | # #
| 4.600 | 5655 | 11 .757. | 365.6 | 19050. | 192.3 | 167* | 11.6 | 13.7 | .037 | 57.4 | 1.394 | 84.29 | 711. | 10. |
| 6.75. 134731. 465.9 18642. 194.7 .296 11.6 13.6 .034 54.6 1.398 84.64 665. 1 6.697. 6540. 156742. 502.9 18438. 195.9 .298 11.6 13.5 .032 53.1 1.399 84.81 642. 1 7057. 7355. 16374. 541.3 18239. 197.1 .300 11.6 13.3 .030 50.3 1.403 85.14 597. 619. 1 7496. 7711. 176977. 541.2 18074. 194.3 .332 11.6 13.3 .028 48.8 1.406 85.31 575. 1 7897. 6167. 203464. 645.0 17654. 200.6 .307 11.6 13.2 .027 47.4 1.408 85.47 553. 1 7057. 7371. 727215. 710.3 17487. 202.1 .309 11.6 13.1 .026 46.0 1.410 85.64 531. 1 7057. 7377. 72545. 756.9 17310. 203.4 .312 11.6 13.1 .025 44.6 1.418 85.98 489. 1 7896. 10765. 77616. 656.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. 1 | ¥ . | 4 # Q& . | ¢113. | 12 7014. | 437.1 | 18648. | 193.5 | .243 | 11.6 | 13.7 | •035 | 56.0 | 1.396 | 84.47 | 688. | 01 |
| Coff. 6540. 15640. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. 15760. | # # # | 6 79 to | 6.1.5 | 1 5 11 7 31 . | 6.623 | 18042. | 104.7 | 962. | 11.6 | 13.6 | •034 | 54.6 | 1.398 | 84.64 | 665. | 10 |
| 7650. 7355. 163774. 541.3 18239. 197.1 .300 11.6 13.4 .031 51.7 1.401 84.97 619. 1 7492. 7771. 176977. 581.2 18074. 198.3 .302 11.6 13.3 .030 50.3 1.403 85.14 597. 1 7892. 7771. 176977. 581.2 18074. 198.3 .302 11.6 13.3 .028 48.8 1.406 85.31 575. 1 8296. 8122. 203424. 645.0 17659. 200.6 .307 11.6 13.2 .027 47.4 1.408 85.47 553. 1 4047. 7317. 273512. 750.3 17487. 202.1 .309 11.6 13.1 .026 44.6 1.410 85.84 531. 1 9087. 94.3. 25.504. 405.4 17137. 203.4 .312 11.6 13.1 .025 44.6 1.416 85.89 489. 1 9490. 12.9 .025 43.1 1.416 85.98 489. 1 9896. 10765. 77516. 656.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. 1 |)
 | . 1007 | 6540. | 150767. | 6.205 | 16438. | 195.9 | .298 | 11.6 | 13.5 | .032 | 53.1 | 1.399 | 84.81 | 642. | 10. |
| 7496. 7771. 174977. 581.2 18074. 198.3 .332 11.6 13.3 .030 50.3 1.403 85.14 597. 1 7876. E1f6. 190772. 622.6 17854. 199.6 .305 11.6 13.3 .028 48.8 1.406 85.31 575. 1 8296. E1f2. 205464. 645.0 17659. 200.8 .307 11.6 13.2 .027 47.4 1.408 85.47 553. 1 4644. 9517. 275415. 710.3 17487. 202.1 .309 11.6 13.1 .026 46.0 1.410 85.64 531. 1 9690. 9413. 25.5561 7550. 203.4 .312 11.6 13.0 .024 4.6 1.418 85.81 510. 1 9690. 12055. 776416. 656.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. 1 | * * * | 1040. | 1 155. | 16.10.19. | 541.3 | 18239. | 197.1 | . 300 | 11.6 | 13.4 | •031 | 51.7 | 1.401 | | 619 | 10. |
| ### ### ### ### ### ### ### ### ### ## | 111 | 1496. | 1111. | 176971. | 241.2 | 18044. | 198.3 | . 332 | 11.6 | 13.3 | •030 | 50.3 | 1.403 | | 597. | 10. |
| #296. 0cc?. 2034c4. 665.0 17659. 200.8 .107 11.6 13.2 .027 47.4 1.408 85.47 553. 1 4646. 331. 1 10.3 17487. 202.1 .109 11.6 13.1 .026 46.0 1.410 85.64 531. 1 9059. 44.13. 234.51, 756.9 17310. 203.4 .312 11.6 13.1 .025 44.6 1.413 85.81 510. 1 9494. 254204. 405.4 17137. 204.7 .314 11.6 13.0 .024 43.1 1.416 85.98 489. 1 9896. 10765. 776016. 856.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. | 20 年 20 | 1896. | £ 1 66. | 140415 | 622.6 | 17854. | 190.06 | . 305 | 11.6 | 13.3 | • 028 | 48.8 | 1.406 | | 575. | 707 |
| 4644. 1317. 273413. 710.1 17487. 202.1 .109 11.6 13.1 .026 46.0 1.410 85.64 531. 1 9094. 44.6 1.413 85.81 510. 1 9494. 43.1 214551, 756.9 17310. 203.4 .312 11.6 13.1 .025 44.6 1.413 85.81 510. 1 9494. 254264. 405.4 17137. 204.7 .314 11.6 13.0 .024 43.1 1.416 85.98 489. 1 9896. 10705. 776016. 856.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. 1 | 2 1 2 | # 29¢. | 6167 | 203404. | 645.0 | 17658. | 200.8 | . 307 | 11.6 | 13.2 | •027 | 47.4 | 40 | | 553. | 0. |
| 9090. 4413. 21451, 756.9 17310. 203.4 312 11.6 13.1 .025 44.6 1.413 85.81 510. 1
9494. 254204. 405.4 17137. 204.7 314 11.6 13.0 .024 43.1 1.416 85.98 489. 1
9896. 10765. 276016. 856.1 16970. 206.0 317 11.6 12.9 .023 41.7 1.418 86.15 469. 1 | 1 1 E | 4044. | 1317. | | 710.3 | 7487 | 202-1 | 601. | 11.6 | 13.1 | .026 | 46.0 | 7 | | 531. | 01 |
| 9494. 1244. 254264. 405.4 17137. 234.7 .314 11.6 13.0 .024 43.1 1.416 85.98 489. 1
9896. 10265. 276016. 856.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. 1 | * * | 4000 | 4×13. | 2345533 | 755.9 | 17310. | 203.4 | .312 | 11.6 | 13.1 | .025 | 44.6 | 7 | | 510. | 10. |
| 9896. 10765. 776016. 856.1 16970. 206.0 .317 11.6 12.9 .023 41.7 1.418 86.15 469. | * * * | 4.9. | **** | | 405.4 | 17137. | | .314 | 11.6 | | .024 | ~ | 47 | 2 | 489 | 10, |
| | XXX | 4896. | 10705. | 27 Culb. | 456.1 | 16970. | | . 31.7 | 11.6 | - | . 023 | - | - | ģ | 469 | |

1-1011-1 / HB211-22A A-NDISE LFVEL SCA IFVEL: 17 DFG. F., TOT RELATIVE HUMIDITY: MAKIMIM TAKEDSF WFIGMT, 1C DEG. FLAPS, FAR 36 CUTBACK AT 3.5 N. MILES

| A-11 # 5 # | F LFVELS | ALCHG TH | THE FLIGHT | PATH | | | | |
|---|-----------|------------|-------------|----------|--------|---------|-----------|-----------|
| | I | | 5CA T(111F | TA) KP | | a | 2 | |
| 5515 | ò | | 17.26 | 5515. | | 15.20 | 214 | 7 6 |
| 64.5. | • | 167.1 | 14.76 | 6575 | ***** | 15.20 | 6576 | 10.0 |
| 7879. | 35. | 174.1 | 42.43 | 7870. | 123,37 | 15.70 | 787 | 10.61 |
| 1170 | 776 | 111.9 | 92.66 | 11739. | 101.81 | 1558. | 0.71 | 00.14 |
| (4 9 1 h. | 720. | 178.9 | 47.45 | 14913. | 77.40 | 1687 | 14913 | 07 70 |
| *** | 1096. | \$ 7.7.4 | 53.23 | 18135. | 89.40 | 1874 | 10115 | |
| 11700. | 1457. | \$ * U F 1 | 53.51 | 21280. | 86.75 | 2106 | 21.280 | 5 ° ° ° ° |
| 41 6 3 % . | 1472. | 8.C. | 93.52 | 21439. | 90.00 | 2116. | 21 409 | 96.36 |
| 447176 | 1549. | 171 | F2.48 | 22376. | 90.06 | 2170 | 27177 | 07.70 |
| . 7 160. | 1407. | 181.2 | 87.60 | 27160. | 81.23 | 236.2 | 27360 | 40.45 |
| 17479 | 1983 | 1.481 | 81.66 | 30403 | 80.24 | 24 H 3. | - CO 7 CE | 77 37 |
| 3440 | £1 £4. | 167.5 | 92.74 | 33440. | 79.35 | 2604 | 33660 | 76 |
| 14716. | P 3 5 7 . | 4.84 | 112.86 | 38714. | 77.94 | 2422 | 30714 | 76 03 |
| 10570 | 2616. | 143.1 | 82.58 | 39520 | 17.75 | 7855 | 10530 | 15.403 |
| 45670. | 2711. | 184.1 | A 3.00 | 45600 | 76.38 | 3108 | 45600 | 76.69 |
| 6.774. | 2102. | 186.3 | 80.10 | 47274. | 76-02 | 77/18 | 47279 | 76. 63 |
| \$1 sec. | . # 200 | 186.9 | 83.12 | \$1680. | 75.18 | 3362 | 5 1 A H O | 71 77 |
| 56 . 12. | 17 Ch. | 185.4 | 12"58 | 56112. | 74.38 | 3564 | 56112 | 21.66 |
| 51750 | 32A1. | 185.6 | 83.24 | 51750. | 74.08 | 3610- | 57760 | 20.00 |
| 10 . W . W | 3558. | 180.4 | 63.17 | 63840. | 73.06 | 3669. | 63840. | 70.17 |
| 6 5 2 5 C | 1671. | 4 · 0 · · | ひゃったむ | 65278. | 72.83 | 3927. | 65228 | 71.75 |
| | 7254 | 187.1 | 63.49 | 69970. | 72.13 | 4118. | 69920. | 71.16 |
| 1 6 6 6 7 | 60.35 | | £3.5E | 74646. | 71.46 | 4317. | 74646. | 70.58 |
| .00397 | 4093 | 167.8 | 10.10 | 76000. | 71.28 | 4366. | 76000. | 70.62 |
| 620.0 | 4152 | 168.6 | 63.72 | 82040. | 70.50 | 4610. | 82080 | 69.74 |
| - C - C - C - C - C - C - C - C - C - C | 0.5 | 166.6 | £ 3. 76 | 84185. | 70.22 | 4702. | 84385 | 07.04 |
| 04 160. | 46.05. | 189.3 | R3.83 | .09188 | 69.19 | 4850 | 88160. | 11.09 |
| 0 4 7 6 6 | \$450° | 1 30.0 | #3.04 | 94740. | 69.13 | 508H. | 942.0 | 68.51 |
| 27.4 | 4.165 | 190.0 | 63.54 | 9446A. | 69.10 | 5091 | 9449 | 68.48 |
| 43 120. | 50 67 | 1907.6 | 84.04 | 10.3320. | 68.52 | 5319. | 103320. | 67.95 |

| * 5 5 | S 138 3 3 3 7 6 7 | | | 70. OHA | | | | | |
|-------------|-------------------|---------------|-------------------------|----------------|--------|---------------|----------|-----------|-------|
| 5.51.5. | | | | | | | | | |
| 5515. | 2 | > | ## 7 / SCR 74 1945 TA 3 | . . | R2 | œ | DISTANCE | L/2 WINTH | AREA |
| | ó | 9 | | 5440. | 2090 | 2090. | 5515. | 2090. | 0.0 |
| | . | 67.1 | 62.41 | 5440, | 2090 | 2090. | 6575. | 2040. | 91.0 |
| 1013. | 35. | 174.1 | 67.63 | 5440. | 2090. | 2090. | 7870. | 2090. | 0.35 |
| 11719. | 145. | 177.4 | 92.66 | 5441. | 2091. | 3185. | 11739. | 3167. | 1.08 |
| 4 1 2 7 | 120. | 176.9 | \$2.45 | 5443. | 2092. | 3591. | 14913. | 3518. | 1.84 |
| . 4 2 4 4 4 | 1296. | 179.0 | 93,73 | 5445. | 2093. | 3919. | 18135. | 3763. | 2.68 |
| 40 44 | 46.57 | 40.00 | 43.51 | 5447. | 2095. | 4229. | 21280. | 3970. | 3.56 |
| 3 8 6 19 2 | 1472. | 183.6 | 93.52 | 5447. | 20.15. | 4242. | 21,609. | 3978. | 3.59 |
| 129 150 | . 6 4 9 4 | 191.0 | 67.46 | 4371. | 1735. | 3758. | 22326. | 34.24. | 3.84 |
| 371. 3 | 1 507. | 101 | 00.78 | 4 136. | 1740. | 4027. | 27360. | 3598. | 5.11 |
| 13438. | 1763. | 1 . 6 1 | 82.6A | 4305. | 1743. | 4191. | 30403. | 3710. | 5.90 |
| 356.23 | 2114. | 5 * 7 P + | 42.74 | 4403. | 1746. | 4350. | 33440. | 3808. | 6.72 |
| 24 7 2 A. | 2177. | 183.2 | 82.46 | 4416. | 1751. | 4416. | 34714. | 3722. | 8.15 |
| 16.5 72. | 7.16. | 161.3 | 67.79 | 4418. | 1751. | 4418. | 39520. | 3699. | 8.36 |
| 13 t + 13 . | . 1 1 1 4 | 1 . 3 . 1 | 41.00 | 4453. | 1756. | 4433. | 4>600. | 3508. | 66.6 |
| 11:19 | 1172. | 1 74 . 3 | 43.03 | 4437. | 1757. | 4437. | 47779. | 3449. | 10.35 |
| 11 4 40. | の見かけた | | 11.12 | 4444 | 1/01. | 4448. | 51690. | 3285. | 11.41 |
| 54.113 | 57.76 | 10.00 | 41.21 | 4458. | 1764. | *855 5 | 50112. | 3098. | 12.43 |
| 57740. | 3.41 | 3.191 | 42.50 | 4462. | 1766. | 4462. | 57760. | 3025. | 12.75 |
| 1 1450 | 3554 | 1 82. 6 | £3.17 | 447B. | 1771. | 4478. | 63340. | 2719. | 14.04 |
| 55 7 F | 3521 | おし 公司 ま | 83.40 | 44.RI. | 1772. | 4431. | 65228. | 2640. | 14.31 |
| . 40.00. | 1827. | 167.1 | P 3 . 4 G | 6642. | 1776. | . 7694 | 69920. | 2352. | 15.15 |
| frent. | 4315 | 147.1 | 2.00 | 4504 | 1119. | 4504. | 74646. | 20003 | 15.89 |
| 70,000 | 4.74.1 | 1. 4. 7. 4. 1 | 43.63 | 45.37. | 178.3. | 4507. | 76000. | 1880. | 16.08 |
| 47.0+0. | 4147. | 1 44.0 | 45.12 | £570. | 1785. | 4520. | 82080. | 1222. | 16.76 |
| ** * * * | 4.550 | 1 6 5 | 21.10 | 4520. | 1787. | 4526. | 8,135. | 823. | 16.92 |
| 44 15.5. | . 40.40 | 1 04. 3 | £3.83 | . 5655 | 1789. | 4534. | 86322. | • | 16.98 |

PAGF

1-1011-1 / BR211-22R A-MOISE LEVEL STA LEVEL, 77 OFG. F., 70% RELATIVE HUMIDITY MAXIMUM TAKEOFF WEIGHT, 10 DEG. FLAPS, FAR 36 CUTBACK AT 3.5 N. MILES

80. DBA

4 - Milly Levels

| | | | N1 / | | | | | | |
|---------|--------|----------|----------------|---------|-------|-------|----------|-----------|------|
| # | 7. | > | SGR TE THE TAT | ~-
& | R2 | œ | DISTANCE | 1/2 MIDTH | AREA |
| 515. | ċ | 156.7 | 45.41 | 2531. | 1139. | 1139. | 5515. | 1139. | 0.0 |
| . 4.75. | • | 167.1 | 92.41 | 2531. | 1139. | 1139. | 6575. | 1139. | 0.09 |
| 410. | 35. | 174.1 | 92.43 | 2531. | 1139. | 1381. | 7870. | 1380. | 0.20 |
| 710. | 344. | 177.9 | 95.66 | 2533. | 1139. | 1777. | 11739. | 1744. | 0.64 |
| 1913. | 120. | 170.9 | 56.25 | 7536. | 1141. | 2062. | 14913. | 1932. | 1.06 |
| | 1096. | 6.641 | 93.23 | 2539. | 1142. | 2395. | 18135. | 2130. | 1.53 |
| 1240. | 1457. | 180.0 | 91.51 | 2542. | 1143. | 2542. | 21280. | 2083. | 2.00 |
| 439. | 1472. | 1.961 | 43.52 | 2542. | 1143. | 2542. | 21 +09. | 2073. | 2.02 |
| 1376. | .6451 | 141.0 | 95.48 | 1661 | 966. | 1491. | 22 126. | 1251. | 2.13 |
| 1360. | 1907. | 1.11.7 | 82.60 | 1 99 H. | 969. | 1998. | 27360. | 852. | 2.51 |
| 403. | 1.163. | 162.1 | #Z.68 | 2002 | .016 | 2002 | 30403. | 393. | 2.64 |
| 440. | 2114. | 1.62 - 5 | 32.74 | 2006. | 971. | 2006. | 31206. | 0 | 2.66 |
| | | | | | | | | | |

| • | | | | | | | | | |
|--|------------------|-------|-------------|-------|-------|-------|--------|--------|--------|
| PAGE | | | | | | | | | |
| | | | AREA | 0.0 | 0.05 | 11.0 | 0.33 | 0.52 | 0.61 |
| 07-04-74 | | | 1/2 # (DTH | 595. | 595. | 718. | 874. | 610. | 0. |
| MILES | | | DISTANCE | 5515. | 6575. | 7870. | 11739. | 14913. | 14040. |
| 3.5 N. | | | Œ | 595. | . 565 | 719. | 939. | 1083. | 1086. |
| CUTBACK AT | | | 2 | 595. | 565 | 595. | .965 | 597. | .898 |
| 1801TY
FAR 36 | 90. ORA | | | | | | 1081. | | |
|) A-WDISE LEVEL
:., FOR RELATIVE HUMINITY
:HT, IC DEG. FIAPS, FAR 36 CUTBACK AT 3.5 N. WILES | | / 13/ | SCRT(THFTA) | 92.41 | 15.26 | 92.43 | 95.66 | \$6.26 | 63.23 |
| A-9603 | | | > | 156.7 | 167.1 | 174.1 | 177.9 | 6.871 | 6.671 |
| R8211-226
77 DEG. 9 | LEVELS | | X | 6 | Ġ | 35. | .44. | 720. | 10%6. |
| L-1011-1 / RB211-228
SFA (FVEL, 77 DEG. F.
MAXIMUM TAKEGFF MEIGE | A - MUISS LEVELS | | w | 5515. | 6575. | 7470- | 11779. | 14013. | 18115. |

| PAGE 99 | | | |
|---|------------------|---|--|
| • | | AREA
0.00
0.02
0.12
0.13 | |
| 07-04-74 | | 1/2 MIDTH
262,
262,
318,
318,
0. | |
| MILES | | DISTANCE 5515.6575.7870.11739.12728. | |
| 1 3.5 No. | | 262.
262.
320.
413. | |
| JYBACK AT | | 82
262.
262.
262.
262.
263. | |
| IDITY
FAR 36 CL | 100. 084 | 6 6 1 2 | |
| A-MUSSE LEWEL ** TOT RELATIVE HUMIDITY MT, IC DEG. FLAPS, FAR 36 CUTBACK AT \$.5 N. MILES | ₽ | 808 11 THE TA.1
92.41
92.41
92.43
67.65 | |
| 701 s | | > 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | |
| 8211-228
7 066. 6 | LEVFIS | - 00 % % % % % % % % % % % % % % % % % % | |
| 1-1011-1 / RS211-228
SFA LFVEL 77 DEG. F.
MAKEMUM TAKEDFF WEIGH | A - Waise Levris | 6515-
0515-
0515-
7870-
1739- | |

| | | AREA
0.0
0.02
0.02 |
|--|------------------|--|
| 07-04-74 | | DISTANCE 1/2 WIUTH
5515. 104.
6575. 109.
7870. 124. |
| MILES | | DISTANCE
5515.
6575.
7870.
9104. |
| W .S N. | | 104.
104.
128. |
| SUTBACK AT | | 82
104
104
104 |
| IDITY
FAR 36 (| 110. ORA | 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| 5 A-MOISE LEVEL
7., 70% MFLATIVE HUMIDITY
2MT. 10 DEG. FLAPS, FAR 36 CUTRACK AT 3.5 N. MILES | *** | 8CR 1(THE TA) 1.7 92.41 1.1 92.41 1.1 92.43 |
| A-NO! | | > < 4 < 4 < 4 < 4 < 4 < 4 < 4 < 4 < 4 < |
| 48211-270
77 DEG. F
FOFF WEIG | | 20004 |
| L-1011-1 / MB211-228
Sea Livel, 77 DEG. F.
Maximum Tameoff well. | A - MITSE LEVELS | 25 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

PARTATION ANGLE ITHETA; 9C. STARTH 12140. INCREMENTE 4080.

IPLTIO = 0 ICL + 0 ISL = C IBOTH = 0 NSCLND = 0 IPLTFT = 0 NSCLFT = 0 MAXIFY IANDING WILGHT INSECTIONS.), 420EC, FLAPS, DLC, 3DEG GLIDF SLOPE

0. FLAP = 42. TAMB = 77.0 VMI # 0.0 8 7 358000. HP 4 RCK CHA MAAY TVDED .

0. CAMMA # 0.0 OLC *1.C BELV # 10.00 firt .

| AAXIMUM I | HAXIMUM LANDING WE | TGHT (358, COOLB.), | | 42DEG, FL | FLAPS, DLC, | 3 DEG | 3 DEG GLIDE SLOPE | 070474
JPE | 474 | PAGE | 107 |
|-----------|--------------------|---------------------|----------|-----------|-------------|--------|-------------------|---------------|------------|-------|-----|
| | PRESSURE | GEOMETRIC | TOTAL | | | | | | 712 | | |
| H | AL TITUDE | AL TI TUDE | DISTANCE | THRUST | SPEEC | MACH | TEMP | IFPR | SORTITHETA | FLAP | |
| | (FT) | (FT) | (FT) | (18) | (KTAS) | | (DEG F) | | (PCT) | (DEC) | |
| , 9¢ | 4 B • | 50. | 0 | 12292. | 152.3 | • 2.26 | 76.8 | 1.203 | 66.27 | 42. | |
| 370. | 358. | 370. | 6080 | 12292. | 153.0 | .228 | 75.7 | 1.205 | 66.61 | 42. | |
| 1417. | 1365. | 1417. | 26080 | 12292. | 155.3 | 0.332 | 72.1 | 1,213 | 61.69 | 42. | |
| 2464. | 2380. | 2466. | 46080 | 12292. | 157.7 | .236 | 68.5 | 1.222 | 68.73 | 42. | |
| 3515. | 3394 | 3515 | 66080- | 12292 | 1,60,1 | 176 | 6.44 | 1.221 | 49.78 | 4.2 | |

07-04-74

L-1011-1 / RB211-22B A-NOISE LEVFL SFA LFVFL, 77 DEG. F., 70% RFLATIVF HUMIDITY MAXIMUM LANDING WEIGHT (358,COOLB.), 42DEG. FLAPS, DLC, 3DEG GLIDE SLOPE

| LEVELS A | ALONG THE | FLIGHT
N1/ | РАТН | | | | |
|----------|-----------|------------------|----------------|--------|--------|--------------|-------|
| > | | SOR T (THE TA) | dΧ | רכד | œ | ХРР | LST |
| 152.3 | | 66.27 | ċ | 113.40 | 1521. | 0 | 69.41 |
| 153.0 | | 19.99 | 6080 | 93.79 | 1564. | 6080 | 73.04 |
| 153.7 | | 66.94 | 12160. | 87.27 | 1669. | 12160. | 75.03 |
| 154.4 | | 67.27 | 18240. | 83.01 | 1823. | 18240. | 75.97 |
| 155.1 | | 67.60 | 24320. | 19.94 | 2016. | 24323 | 74.79 |
| 155.3 | | 69.19 | 26080. | 79.18 | 2038. | 26080. | 74.44 |
| 155.8 | | 67.92 | 30400. | 77.48 | .223H. | 30400 | 73.57 |
| 156.5 | | 68.23 | 36480. | 75.33 | 2481. | 36480. | 72.36 |
| 157.2 | | 68.55 | 42560. | 73.52 | 2740. | 42560 | 71.20 |
| 157.7 | | 68.73 | 46080. | 12.59 | 2895. | 45080. | 70.55 |
| 158.C | | 68.86 | 48640. | 71.96 | 3010. | 48640. | 70.10 |
| 158.7 | | 69.18 | 54720. | 70.59 | 3290. | 54720. | 69.04 |
| 150.4 | | 69.51 | 60800 | 69.36 | 3576. | 60800 | 68-01 |
| 160.1 | | 69.78 | 6 6080• | 68.33 | 3829. | 66080 | 67.17 |

L-1011-1 / RB211-228 A-NGI SE LEVEL SFA LEVEL, 77 DEC. F., 70% GELATIVE HUMIDITY MAXIMUM LANDING WFIGHT (358,000L8.), 42DEG. FLAPS, DLC. 3DEG GLIDE SLOPE

| A - NOISE | E LEVFLS | | | 70. DBA | | | | | |
|-------------|----------|-------|------------------------|----------|--------|-------|----------|-----------|------|
| × | I | > | NI /
SOR T(THE TA) | X | R2 | ~ | DISTANCE | 172 MIDTH | ARFA |
| •0 | 50. | 152.3 | 66.27 | 2857. | 1233. | 1545. | 0 | 1544. | 0-0 |
| 6040 | 370. | 153.0 | 66.61 | .879. | 1240. | 1970. | 6080 | 1935. | 0.76 |
| 12160. | 688. | 153.7 | 46.99 | 2901. | 1247. | 2232. | 12160. | 2124. | 1.64 |
| 18240. | 1006. | 154.4 | 67.27 | 2922. | 1254. | 2506. | 18240. | 2295. | 2.61 |
| 24370. | 1325. | 1.551 | 04.79 | 2945. | 1261. | 2627. | 24320. | 2498. | 3.65 |
| 26C30. | 1417. | 155.3 | 61.69 | 2951. | 1263. | 2921. | 26080. | 2554. | 2.97 |
| 30400. | 1643. | 155.8 | 67.92 | 2967. | 1268. | 2967 | 30400 | 2470. | 4.75 |
| 36480. | 1961 | 156.5 | 68.23 | 2589. | 1275. | 2989. | 36480. | 2255. | 5.78 |
| 42500. | 2279. | 157.2 | 63.55 | 3011. | 1282. | 3011. | 42550. | 1967. | 6.70 |
| 460HO. | 2464. | 157.7 | 68.73 | 3024. | 1286. | 3024. | 46080. | 1753. | 7.17 |
| 43640 | 2598. | 158.0 | 68.8¢ | 3033. | 1289. | 3033. | 48640. | 1566. | 7.48 |
| 54720. | 2918. | 158.7 | 69.18 | 3056. | 1 296. | 3056. | 54720. | 910 | 8.02 |
| 608.10. | 3237. | 159.4 | 15.69 | 3079. | 1303. | 3079. | 57564. | •0 | 8.11 |

| PAGE 105 | |
|----------|-----|
| 07-04-74 | |
| • | |
| | |
| | - L |

į,

L-1011-1 / RB211-228 A-NOISE LEVEL SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY MAXIMUM LANDING WFIGHT (358,COOLE.), 42DEG. FLAPS, DLC, 3DEG GLIDE SLOPE

| | ARFA | 0 | 0.41 | 0.87 | 1.29 | 1.47 |
|-------------|------------------------|-------|---------------|--------|--------|--------|
| | 1/2 WIDTH | 844. | 1020. | 1398. | 833. | o |
| | DISTANCE | 0 | 6080. | 12160. | 18240. | 24178. |
| | œ | 845. | 1085. | 1296. | 1307. | 1316. |
| | 82 | 681. | 686. | .069 | 695. | 700. |
| 80. DBA | 81 | 1275. | 1285. | 1256. | 1307. | 1318. |
| | N1 /
SQR T(THF TA) | 66.27 | 66.61 | 16.00 | 61.27 | 67.60 |
| | > | 152.3 | 153.0 | 153.7 | 15:.4 | 155.1 |
| FVELS | I | ٠٠٠٤ | 370. | 688. | 1306. | 1325. |
| A - 100 ISE | ж | •0 | • 0809 | 12160. | 18240. | 24370. |

| SCOP |
|---|
| 100 |
| 3 DE 6 |
| |
| FLAPS |
| 420FG. |
| (358,C00LR.); |
| MAXIMUM LANDING WEIGHT (358,000L8.); 420FG. FLAPS, DLC. 3DEG GLIDE SLUP |
| |

| | | AREA | 0.0 | 0.17 | 0.21 | |
|--|------------------|------------------------|-------|-------|--------|--|
| | | 1/2 WIDTH AR | *04 | 376. | ċ | |
| IDE SLOPE | | DISTANCE | ċ | 6080 | 9143. | |
| 3 DEG GL | | | | | 533. | |
| PS, DLC, | | R2 | 327. | 330. | 333. | |
| HIDITY
20FG. FLAS | 40. DHA | 81 | 523. | 528. | 533. | |
| L-1011-1 / RBZ11-22B A-NDISE LEVEL
SEA LEVEL, 77 DEG. F., 70% RELATIVE HUMIDITY
MAXTHUM LANDING WEIGHT (358,COOLR.), 420FG. FLAPS, DLC. 3DEG GLIDE SLOPE | | N1 /
SCR TE THE TA! | 66.27 | 19.99 | 75.99 | |
| A-NOI
•• 70%
HT (358 | | > | 152.3 | 153.0 | 153.7 | |
| KB211-22B
77 DEG. F
1DING WEIG | revers | ı | 50. | 370. | 688. | |
| L-1011-1 /
SEA LEVEL,
MAXIMUM LAN | A - NOTSF LEVELS | × | •0 | 6C80. | 12160. | |

07-04-74

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3

L-1011-1 / RB211-72B 4-NDISF LEVFL SFA LEVFL, 77 DEG. F., 70% RFLATIVE HUMIDITY MAXIMUM IANDING WEIGHT 1358,G00LB.), 42PFG. FLAPS, DLC, 3DEG GLIDE SLOPF

DISTANCE 1/2 WIDTH
0. 166.
2528. 0. R 173. 197. R2 137. 138. 100. DBA R1 195. 197. N1/ V SQRT(THFTA) 152.3 66.27 153.0 66.61 A - MOISF LFVELS × 0,009

ARFA 0.0 0.02

| 801 | | |
|--|------------------|--|
| PAGE 108 | | |
| | | AREA
0.0 |
| 07-0474 | | /2 WIDTH
50. |
| DE SLOPE | | DISTANCE 1/2 WIDTH
0. 50.
393. 0. |
| 30EG GL1 | | R
711. |
| PS, DLC, | | R2
57. |
| ITOTTY
DEG. FLA | 110. DSA | кі
71. |
| I-1011-1 / RB211-226 A-NUISE LEVEL
SFA LEVEL, 77 DEG, F., 70% RELATIVE HUMIDITY
MAXIMUM IANDING WEIGHT (359,COOLB.), 42DEG, FLAPS, DLC, 30EG GLIDE SLUPE | - | N1 / SCRT(THETA) 152.3 66.27 153.0 66.61 |
| 3 A-NU1
5.2 70%
SHT (358 | | 152.3 |
| RB211-220
77 DEG. 1 | LEVELS | н
50
370. |
| 1-1011-1 /
SFA LEVFI +
MAXIMUM IAN | A - NIISF LFVELS | × ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° |

G7 04-74 PAGE 109

RABIATION ANGLE (THETA) 9C. START= 12160. INCREMENT= 6080. 12-IVD = 0 ICL = 3 ISL = 0 180TH = 0 NSCLND = 0 IPLIFI = 0 NSCLFT = 0 3:00,000 IR. LANDING WFIGHT, 42 DEG. FLAPS, DLC, 3 DEG. GLIDE SLOPE

0. FLAP = 42. TANB = 77.0 APPR ENG #22H OFF VM1 # 0.0 W # 300000. HP #

THT = 0. GAPMA = 0.0 DLC = 1.0 DELV = 10.00

| 10,000 1 | 10.000 LP. LANDING | G WEIGHT. | WFIGHT, 42 DEG. FLAPS, DIC, 3 DEG. | APS, DLC, | | GL 10F | SLOPE | 07-04-74 | ÷7.4 | PAGE | 110 |
|----------|--------------------|------------|------------------------------------|-----------|--------|--------|---------|----------|-------------------------|-------|-----|
| | PRESSINE ALTITUDE | TEUNE TRIC | TETAL
DISTANCE | THRUST | SPEED | MACH | TEMP | LEP B S | N 1/
SQR T (THETA) | FLAP | |
| | (E I) | (F F) | [FT] | (18) | (KTAS) | | Ince F1 | | (PCT) | (DEC) | |
| | 4 F . | 50. | 6 | 10366. | 141.6 | .210 | 76.8 | | 61.09 | 42. | |
| | 15E. | 170. | offer. | 10366. | 142.2 | .212 | 75.7 | | 61.42 | 42. | |
| | 1365. | 1417. | 26C80. | 10366. | 144.4 | 21 2. | 72.1 | | 62.51 | 42. | |
| 744- | 2380. | 7.464. | 460HO. | 10366. | 1,46.6 | . 220 | 68.5 | 1.186 | 63.65 | 42. | |
| | 7611 | 4616 | A. C. C. C. | 1031.4 | 4.04 | 700 | 0.44 | | 44.83 | 7 | |

LSL 67.95 71.59 73.59 72.14 72.14 72.14 69.17 69.17 69.17

XPP 0.000. 12160. 12160. 24.320. 26.320. 26.030. 42.240. 466.40. 54.720. GL TDE SLOPE R 1521-1564-1669-1669-2016-2016-2016-2740-2740-3290-3576-L-1711-1 / 98211-27A A-NUISE LEVEL SFA LEVEL, 77 DEG. F., 70% RELATIVE HUNIDITY 30°C, COO LO. LANDING WEIGHT, 42 DEG. FLAPS, DLC, 3 DEG. LCL 111-68 92-20 85-74 81-58 77-72 77-04 77-04 73-06 73-95 73-95 73-95 12160. 12160. 18740. 24320. 24320. 26400. 36460. 46740. 46740. PATH SCR TTHE TAIL SCR TTHE THE TAIL SCR TTHE THE TAIL SCR TTHE LFVFLS 50. 1006. 1006. 1006. 1617. 16

| | 3 DEG. GL 10E SLOPF |
|--|---------------------------------|
| MUMIDITY | FIAPS, DLC, |
| L-1011-1 / RP211-726 A-MUISE LFVEL
SFA LFVEL, F7 DEG, F., 70% RELATIVE MUMIDITY | OND THE LAMPING METCHT. 42 PEG. |

| \$ - M1156 | 5 134 37 | | | 70. UEA | | | | | |
|------------|----------|-------|------------------------|---------|-------|-------|--------------|-----------|--------|
| * | 7 | > | N1 /
SCR 11 1HF FA1 | 8 | 82 | œ | DISTANCE | 1/2 WIDTH | AREA |
| ď | 50. | 3.1.1 | 61.39 | 2501. | 1134. | 1422. | · | 1421. | 0.0 |
| ないより、 | 170. | 142.2 | £1.42 | 2579. | 1140. | 1814. | .0809 | 1776. | C.7 |
| 12160. | 6.8.8 | 162.9 | 61.75 | 2597. | 1146. | 2066. | 12160. | 1948. | #C) |
| 14240. | 1306. | 163.5 | 47.UR | 2614. | 1152. | 2345. | 18240. | 2118. | 34ª X |
| 26776. | 1325. | 144.2 | 62.42 | 2432. | 1159. | 2632. | 24320. | 2275. | 14 . W |
| 74000. | 1417. | 4.441 | 15.59 | 263 ft. | 1160. | 2638. | 26080. | 27.25. | 3.64 |
| 12400. | 1041. | 6-451 | 47.76 | 2651. | 1165. | 2651. | 30400 | 2081. | 4.3 |
| 425.80. | 1961. | 145.5 | 61.11 | 2673. | 1171. | 2670. | 36480. | 1812. | 5.15 |
| 42544. | 2279. | 146.2 | 63.45 | 2669. | 1178. | 2689. | 42560. | 1426. | 5.86 |
| 42600. | 2446. | 146.6 | (3.65 | 2700. | 11811 | 2700. | 46380. | 1105. | 6.16 |
| 49416. | 2591. | 140.9 | £3.8J | 27.3A. | 1184. | 2708. | 48640. | 765. | 6.3 |
| 547.C. | 2918. | 147.0 | 64.10 | 2728. | 1121. | 2726. | 50879. | • | 6.4 |

L-1011-1 / AB) 11-22m a-MDISE (EVEL Sra Lfvel, 77 NEG. F., Tot Relative Muminity Icc. Coo (A. Landing Weight, 42 DFG. Flads, Nic, 3 DFG. Glide Slupe

| | | AREA | 0.0 | 0.37 | C.76 | 50-1 | 1.14 |
|----------|------|---------------|----------|-------|--------|---------|---------|
| | | 1/2 MIDTH | 760. | 917. | 913 | 562. | • |
| | | CISTINCE | • | 6090 | 12160. | 19240. | 21115. |
| | | æ | 761. | 949 | 1144. | 1153. | 1162. |
| | | 197 | 611. | 615. | 619. | 623. | 628, |
| 83. DhA | |
œ | 1126. | 1135. | 1144. | 1153. | 1462. |
| | A1 5 | SCOTE THE TAY | 60.14 | £1.42 | 61.15 | #D . 44 | 27.24 |
| | | > | 141.6 | 147.2 | 142.9 | 143.5 | 144.2 |
| STRAIT | | I | <u>,</u> | 173. | . 644 | 1006. | 13/5. |
| 3104 - 1 | | • | 3 | SCAU. | 12166. | 14240. | 26.720. |

| | | SLOPE |
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| | | SL 10E |
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| | 77 | 270 |
| | I O I MOST | FLAPS, |
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| - NG1 SE | TOT REI | CHI. 4 |
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| 162-11-231 | 7 OFC. F | LANDING |
| - | - | <u>.</u> |
| 1-1011-1 / #8211-22# 4-NUISE LEVEL | IZAY FES | BOC.030 LP. LANDING WFIGHT, 42 UFG. FLAPS, DIC. 3 DEG. GLIDE SLOPE |
| | | |

| | | | AREA | o•0 | 0.13 | 0.15 |
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| | | | 1/2 WIDTH | 353. | 265. | 0.0 |
| 340 | | | PISTANCE | • | 6080 | 1734. |
| פר נספ צר | | | œ | 356. | 455 | 460. |
| 3 066. | | | 8 12 | 285. | 287. | 240. |
| APS. DLC. | 90. DBA | | | .15+ | | |
| # 61 #71 VF 11U | | \ T& | 509 11 111 12 1 | ¥0.14 | 25.19 | 61.15 |
| WF ICHT. | | - | > | 141.0 | 143.6 | 5 - 2 9 1 |
| TOFC. C | i han an | | ĭ | ,
5 | .02. | C 88. |
| SEA LEVEL, 77 OFC. F., TOE RELATIVE HUMIDITY SOO LA. LANDING WEIGHT, 42 UFG. FLAPS, DIC. 3 DEG. GLIDE SLOPE | 572A 37 3510W - 9 | | • | ż | \$ €\$0. | 17167. |

| PAGE 115 | | |
|---|------------------|---|
| PAG | | |
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195, OLC, | \$50. DPA | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| A-MATSE SEVEL A. TOE RELIGIOUS MUMIDITY METCHI, 42 //EC. FLAPS, DIC. 3 DEG. GLIDE SLOPE | • | 41 / 42 / 42 / 42 / 42 / 42 / 42 / 42 / |
| 6 4-903
6 4 708
MF 15.913, | | 3 · · · · · · · · · · · · · · · · · · · |
| ## 211-22
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| 1 1311-1 / BRZ11-228
SFM LEWEL 77 UEG. F. | A - Mills Livers | , can. |

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| GL 10E | | * | 30 | • |
| DFG. | | 82 | 40. | 49. |
| ~ | | | | |
| -IOII-1 / RB211-22A A-NUSSE LEVEL
54 LFVEL, 77 DEG. P., FOR RELATIVE HUMIDITY
72.030 LU. LANDING WESGNI, 42 DEG. FLAPS, OLC, 3 DEG. GLIDE SLOPE | 110. OBA | 8 | 59. | .03 |
| HUMI | 11. | (F) | | |
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BADIATION ANGLE (THETA) 90. START 17160. INCHEMENTE 6080.

INTING = 0 ICL = 0 ISL = 0 IBDYH = 0 NSCLNP = 0 IPLIFT = 0 NSCLFT = 0 * Ax Laming which is 155, 600 (F.), 33 DEG. FLAPS, DLC, 3 D.G. 61 TOE SLOPE

0. FLAP = 33. TAMB = 77.0 APPR THE #22A OFF VIET # 0.0 H # 3580003 HP = * # id A 1

0. LAMMA = 6.C DLF =1.0 DELV = 10.00 THE .

PAGE 118 FLAP 10661 23. 33. 33. 1.176 62.32 1.176 62.32 1.185 62.46 1.185 63.80 1.192 64.97 07-04-74 WAI LANDING WEIGHT 1358,000 18.1, 33 NEG. FLAPS, OLC, 3 DEG. GLIDE SLOPE 1.176 1.178 1.185 1.192 1.200 MACH .234 .235 .240 .246 .246 SPFED (KYAS) 157.4 158.1 160.5 162.9 THRUST (LB) 10481-10481-10481-10481-PRESSURE GERNETRIC FOTAL
ALTITUDE ALTITUDE DISTANCE
(FT) (FT) (FT)
48. 50. 0.380.
1365. 1417. 26060.
2360. 2464. 460E0. 30. 140. 1417. 3464.

1-1011-1 / BB211-226 A-NDISE LEVEL SFA LFVFL, 77 DES. F., 70% RFLATIVE HUMIDITY MAX LANDING WEIGHT (358,060 18.1, 33 DEG. FIAPS, DLC, 3 DEG. GLIDE SLOPE

| | t St | 68.29 | 71.93 | 73.93 | 74.88 | 73.70 | 73.35 | 72.48 | 71.27 | 70.10 | 69.46 | 69.01 | 67.96 | 66.99 |
|--------------|---------------|--------|----------|--------|--------|-------------|--------|--------|--------|--------|------------|--------|--------|---------|
| | d d x | • | 6 () RO. | 12160. | 18240. | 24320. | 26080. | 30 400 | 36440. | 42560. | 46.0AG. | 48640. | 54720. | 60830° |
| | α | 1521. | 1564. | 1669. | 1823. | 2016. | 2078. | 223H. | 2481. | 2740. | 2895. | 3010. | 3290. | 3576. |
| | 701 | 112.10 | 92.58 | 86.10 | 61.43 | 78.83 | 70.67 | 76.38 | 74.24 | 72.43 | 71.50 | 70.87 | 15.69 | 68.29 |
| PATH | • | | | | | | | | 36480. | • | • | _ | - | _ |
| FLIGHT
NI | 5CF 71 THE TA | 62.32 | 47.66 | 63.00 | 63.35 | 63.70 | 61.80 | £4.0°. | 14.40 | 64.77 | 14.41 | 65.13 | 65.49 | 45.86 |
| ALCHG THE | > | 157.4 | | 154.0 | 156.5 | 167.3 | 160.5 | 161.5 | 161.8 | 162.5 | 166.73 | 163. | 164.0 | 164.8 |
| CLEVELS | I | \$0. | 370. | +6B. | 1004 | 1 1 2 5 5 . | 1417. | 1643. | tout. | 22.19. | 2414. | 745B. | 2018. | 37.17. |
| A015£ | × | ò | 60A0. | 12100. | 13740. | 24 3 20. | 20000 | 10400. | 16440. | 475cD. | 5.5.C.#.C. | 44640. | 54720. | ed Anti |

(-1011-1 / MR2(1-229 A-401SE LFVFL SFA LFVFL, 77 DEG, F., 70% RELATIVE HUMIDITY MAR LANDING WFIGHT (1958,CCO 18.), 33 DEG, FLAPS, DLC, 3 DEG, GLIDE SLU

| 5 f 4 | LEVEL, 17 DEG.
LANDING WEIGHT | TT DEG. | | F., YOR RELATIVE MI
1358.CCO 18.1. 33 (| HUMIDITY
OFE. FLAPS. | S. DLC. 3 | DLC, 3 DEG. GL | CLINE SLUPE | | |
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| • | , Ca. Ca. | ¥ 70.4 | 1 5 K | 47.46 | 2645. | 1163. | 1840. | 6 080• | 1812. | 0 |
| • | | | | 66.83 | 2664. | 1169. | 2103. | 12100. | 1988. | - |
| • - | | 400 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 63.35 | 2683. | 1176. | 2381. | 18240. | 215A. | 2.4 |
| - 6 | | | | 64.70 | >702 | 1182. | 2696. | 24320. | 2348. | 3.4 |
| • | | | 4 | 124.47 | 2700. | 1184. | 2706. | 26.080. | 2308. | |
| ش ي | 10 to | | 20.161 | 46.05 | 2722 | 1199. | 2722. | 30400. | 2171. | 7. 3 |
| • | | | 14.1.4 | 24.41 | 1767. | 1196. | 2747. | 36480. | 1917. | 8 |
| ٠. 4 | | 22.50 | 147.5 | 64.77 | 2762. | 1203. | 2762. | 42360. | 1560. | 4.0 |
| , | | 7.46 | 4.0 | 44.91 | 2774. | 1206. | 27 14. | 46080. | 1275. | 7.3 |
| , , | | \$ 5 5 C | 163.2 | 65.13 | 2784. | 1210. | 2784. | 48640. | 999. | 9 |
| . • | | 27.18 | 166.3 | 6.5.4.6.7 | 7897 | 1217. | 2807. | 52444. | ċ | ÷ |

| PAGE 121 | |
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| PAGI | |
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| B A-KUISE LEVE!
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i 358.CCO in.1, 33 DEG. FLAPS, DLC, 3 DEG. GLIDE SLOPF | \$1 /
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SEA LEVEL, 77 OEG. F.
MAX LANDING WEIGHT ()
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24320 |

1-1011-1 / AB231-228 A-MISE LEVEL SFA LEVEL 77 DFG. F., 70% MELATIVE HUMIDITY MAX LANDING WEIGHT (358,000 LB.), 33 DFG. FLAPS, DLC, 3 DEG. GLIDE SLOPE

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| PAGE 12 | | |
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| n neg. G | | 8 87 5
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| orc. | | 82
122. |
| FIGHT 1 / MAZII-728 A-KOISE LEVF
FA LFVEL, 77 DFG, F., 70% RFLATIVE HUNIDITY
AX LANDING WFIGHT (158, CCO (R.F. 33 DEG. FLAPS, DLC, 3 DEG. GLIDE SLOPE | 105, 084 | 11/
V SQN T(THETA) R1
15/-5 (2.12 172. |
| K | STEAST | 1 % %
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FA LEVEL, '
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L-INII-1 / MBZII-228 A-MOSSF LEVFL SEA LEVFL, 7: DEG. F., FOR RELATIVE HUMIOSTY

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| DEC. FLA | 410. 084 | 9 92. |
| MAY LAMBING WEIGHT 1354, COO LR. 1. 33 DEG. FLAPS, DLC. 3 DEG. GLINE SLUPE | | N1/
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FOLTHO # D 1CL + O 1SL + C FRUTH # O MSCLMD # O 1PLTFT # D NSCLFT # O MAK LANDING WI-- 42 DFG, FLAPS, DIC, 6/3 DFG, TWO SFGMENT AT 1000 FT.

0. FLAP = 42. TANB = 77.0 4754 ENG +228 GFF WHI + 0.0 M + 358000. HP M · UBALL

THE * 1000. GAMMA * 6.C DLC *1.0 DELV # 10.00

5-141

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| 10 FT. | | ddx | 0 | 6080 | 12160. | 18116. | 18117. | 18240. | 24320. | 30400 | 36480. |
| MT AT 1000 | | Œ | 1521. | 1564. | 1609. | 1819. | 1419. | 1827. | 2245 | 2749. | 3301. |
| THO SEGNENT | | ונו | 113.40 | 93.79 | 67.27 | 83.14 | 78.00 | 78.66 | 73.30 | 64.35 | 66.41 |
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70% RF | CONG THE | 73S | 147.3 | 1.1.0 | 1.151 | 1.00 | 9.951 | 4.95 | 155.0 | 2.4.4. | 1 54 · · |
| 19211-228
77 086 F | LEVELS | | Š. | | | | | | | | |
| L TOTI-I / RAZII-ZZR A-MBISL LEVFA
SFA LÍVFL, 77 DRG, F., 70% RFLATIVE
MAX LANDING MT., 42 DFG, flaps, DLC, | P4158 | • | 3 | 4080. | 12160. | 14114. | 1.8117. | 14740. | 24 1 20. | 304.10. | 16.5.10. |

1-1011-1 / RB211-22M A-NOISE LFVFL SFA LFVEL, 77 DEG. F., 70% RELATIVE HUNIDITY MAX LANDING Mf., 42 DEG. FLAFS. DIC. 6/3 DEG. TWO SEGMENT AT 1000 FT.

70. DBA

A - NOISE LEVELS

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(-1011-1 / KH211-22H A-NUISF LEVFL SFA IFVEL, 77 DEG, F., 70% RELATIVE HUMIDITY MAX LANDING MT., 42 DEG, FLAPS, DLC, 6/3 DEG, TWD SEGHENT AT 1000 FT.

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L 1011-1 / RAZIL-228 A-NUISE LEVEL SFA LFVEL, 77 DEG. F., 70% RELATIVE HUNIDITY MAX LANDING MI., 42 DEG. FLAFS, DIC, 6/3 DEG. TWG SEGMENT AT 1000 FT.

A - MAISE LFVELS 90. 98A

DISTANCE 1/2 WIDTH
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6069. 376.
9143. 0. 8 407. 528. 533. R2 327. 330. R1 523. 528. 533. NI / SORT(THETA) 3 66.27 66.61 66.94 370°. 8 080.

ARFA 0.0 0.17 0.21 07-04-74

1. 1911-1 / RAZIE-226 A-HOESF LEVEL SEB LEVEL, 77 DEG. F., TOT RELATIVE HUMIDITY MAX LIME'NG MT., 42 DEG. FLAFS, OLC. 6/3 DFG. TWO SEGLENT AT 1000 FT.

A - NOISE LIVELS

100. UBA

AREA 0.0 0.02 DISTANCE 1/2 WIDTH 0. 166. 2528. 0. R 173. 197. 82 137. 138. N: / SCRTITHETA) 1 66-27 5 66-61 # 20804

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| L-1011-1 / AA211-220 A-4015F 1EVEL | SER LIVER. 77 DEG. F., 70% RELATIVE HUMIDITY | MAK LANDING WILL 42 UFG. FLAPS. DLC. 6/3 DEG. TWO SEGMENT AT 1000 FT. |
| | | |

A - 4015E ILVELS

R DISTANCE 1/2 HIDTH
71. 0. 50.
71. 393. 0. 82 57. 57. 110. DUA N1/ V SGRT(THFTA) P1 152.3 66.27 71.

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